



## **PROFESSIONAL MANUFACTURER OF RF & MICROWAVE COMPONENTS**

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## Company Profile

Apex Microwave is a leading innovator and professional manufacturer of RF and microwave components, offering both standard and custom-designed solutions that deliver exceptional performance covering from DC to 67.5GHz.

Apex Microwave specializes in the design and manufacturing of a broad range of RF and microwave components, including RF filters, duplexers/diplexers, combiners/multiplexers, directional couplers, hybrid couplers, power dividers/splitters, isolators, circulators, attenuators, dummy loads, combined filter banks, POI combiners, waveguide components, and various accessories. These products are widely used in commercial, and aerospace applications, such as DAS systems, BDA solutions, public safety and critical communications, satellite communications, radar systems, radio communication, aviation and air traffic control.

Apex Microwave provides comprehensive ODM/OEM services, tailored to meet clients' specific needs and solutions. With a strong global reputation, Apex Microwave exports the majority of its components to overseas markets, with 50% going to Europe, 40% to North America, and 10% to other regions.

With extensive experience and ongoing development, Apex Microwave has built a strong reputation as a trusted industry partner. Our goal is to foster win-win collaborations by delivering high-quality components and supporting clients with expert proposals and design solutions to help them expand their businesses.



# Product Types



Filter



Diplexer/Duplexer



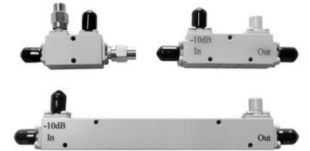
Multiplexer



RF Isolator



RF Circulator



Coupler



Power Divider



Attenuator



RF Load



POI



LNA



Connector

## RF Filter

- Frequency: 10MHz-67.5GHz
- Features: Low insertion loss, high rejection, high power, compact size, vibration & impact resistance, waterproof, custom design available.
- Types: Band Pass, Low Pass, High Pass, Band Stop
- Technology : Cavity, LC, Ceramic, Dielectric, Microstrip, Helical, Waveguide



## Cavity Bandpass Filters

| Model Number          | F0 (MHz) | Frequency Range | Insertion Loss | Return Loss | Rejection   | Power (CW) | Connector | Size(L x W x H)        |
|-----------------------|----------|-----------------|----------------|-------------|---|------------|-----------|------------------------|
| AP-CF1-280M380M-22S   | 330      | 280-380MHz      | ≤1.0dB         | ≥16dB       | ≥70dB@DC-190MHz<br>≥50dB@190-230MHz<br>≥22dB@230-260MHz<br>≥3dB@260-270MHz<br>≥3dB@390-400MHz<br>≥22dB@400-430MHz<br>≥50dB@430-470MHz<br>≥70dB@470-520MHz | 50W        | SMA-F     | 220mm x 128mm x 46mm   |
| AP-TF-343-10-4S       | 339      | 330-348MHz      | ≤1.5dB         | ≥18dB       | ≥50dB@313MHz<br>≥50dB@373MHz  | 5W         | SMA-F     | 90mm x 90mm x 50mm     |
| AP-CF1-338M340M-50N   | 339      | 338-340MHz      | ≤2.0dB         | ≥14dB       | ≥ 5dB@336.65-337.15MHz<br>≥ 50dB@341.8-344MHz   | 5W         | N-F       | 330 mm x 90 mm x 60mm  |
| AP-CF1-338M340M-50NL  | 339      | 338-340MHz      | ≤2.0dB         | ≥14dB       | ≥15dB@336.65-337.15MHz<br>≥50dB@341.8-344MHz  | 5W         | N-F       | 293mm x 160 mm x 61mm  |
| AP-CF1-339M402M-90NWP | 340.5    | 339-402MHz      | ≤0.5dB         | ≥15dB       | ≥90dB@449-451MHz  | 50W        | N-F       | 160mm x 150mm x 59mm   |
| AP-TF-392.5/5-7NF     | 392.5    | 390-395MHz      | ≤1.0dB         | ≥18dB       | ≥75dB@380-385MHz<br>≥70dB@400-405MHz  | 100W       | N-F       | 226mm x 112mm x 52mm   |
| AP-CF1-380420-5RN     | 400      | 380-420MHz      | ≤2.0dB         | ≥19dB       | /   | 100W       | N-F       | 469.4mm x 125mm x 45mm |
| AP-CF1-417M420M-40S   | 419      | 417.5-420.5MHz  | ≤1.5dB         | ≥10dB       | ≥40dB@427.5-430.5 MHz<br>≥40dB@380-395 MHz  | 1W         | SMA-F     | 78mm x 78mm x 41mm     |
| AP-CF1-418M421M-35N   | 419.5    | 418-421MHz      | ≤2.0dB         | ≥14dB       | ≥10dB@411.5-416.5MHz<br>≥35dB@422.5-426.5MHz  | 5W         | N-F       | 300mm x 90mm x 60mm    |
| AP-CF1-427M430M-40S   | 429      | 427.5-430.5MHz  | ≤1.5dB         | ≥10dB       | ≥40dBc@418-420 MHz<br>≥30dBc@438-440 MHz  | 1W         | SMA-F     | 78mm x 78mm x 41mm     |

| Model Number          | F0 (MHz) | Frequency Range          | Insertion Loss   | Return Loss | Rejection  | Power (CW) | Connector | Size(L x W x H)             |
|-----------------------|----------|--------------------------|------------------|-------------|--|------------|-----------|-----------------------------|
| AP-CF1-449M451M-90NWP | 450      | 449-451MHz               | ≤0.5dB           | ≥15dB       | ≥90dB@339-402MHz                                     | 50W        | N-F       | 145mm x 110mm x 59mm        |
| AP-CF1-460-70B        | 460      | 458-462MHz               | ≤6.5dB           | ≥15dB       | ≥70dB@457MHz<br>≥70dB@463MHz                         | 50W        | SMA-M     | 256mm x 90mm x 53mm         |
| AP-CF2-470-70S        | 470      | 469.65-470.35MHz         | ≤5.0dB           | ≥18dB       | ≥70dB@467.7MHz<br>≥70dB@472.3MHz                     | 50W        | SMA-M     | 168mm x 90mm x 106mm        |
| AP-TF-509-10 -4S      | 509      | 504-514MHz               | ≤1.5dB           | ≥18dB       | ≥50dB@479MHz<br>≥50dB@539MHz                         | 5W         | SMA-F     | 78mm x 78mm x 46mm          |
| AP-CF1-511M561M-80N   | 536      | 511-561MHz               | ≤1.55dB          | ≥18dB       | ≥80dB@505MHz&567MHz                                  | 200W       | N-F       | 183mm x 115mm x 50mm        |
| AP-CF1-559M609M-80N   | 584      | 559-609MHz               | ≤1.6dB           | ≥18dB       | ≥80dB@553MHz&615MHz                                  | 200W       | N-F       | 183mm x 115mm x 50mm        |
| AP-CF1-613M645M-80N   | 629      | 613-645MHz               | ≤1.0dB           | ≥16dB       | ≥80dB@607MHz<br>≥80dB@651MHz                         | 250W       | N-F       | 380mm x 235mm x 46mm        |
| AP-CF1-617M652M-60NWP | 634.5    | 617-652MHz               | ≤0.8dB           | ≥20dB       | ≥60dB@663-4200 MHz                                   | 60W        | N-F       | 150mmx90mmx42mm             |
| AP-CF1-679M699M-80N   | 689      | 679-699MHz               | ≤1.0dB           | ≥16dB       | ≥80dB@673MHz<br>≥80dB@705MHz                         | 100W       | N-F       | 380mm x 235mm x 46mm        |
| AP-CF1-700M740M-80GD  | 720      | 700-740MHz               | ≤1.0dB           | ≥18dB       | ≥80dB@DC-650MHz<br>≥80dB@790-1440MHz                 | 50W        | SMA-F     | 170mm x 105mm x<br>32.5mm   |
| AP-CF1-757M758M-SV2   | 757.5    | 757-758MHz               | ≤3.0dB           | ≥15dB       | ≥15dB@757.5MHz±1.5MHz<br>≥90dB@757.5MHz±<br>312.5MHz | 5W         | N-F       | 263mm x 150mm x<br>43.6mm   |
| AP-CF2-15N-V1         | 757.5    | 757-758MHz<br>787-788MHz | ≤1.0dB<br>≤3.0dB | ≥15dB       | ≥15dB@757.5MHz±4MHz<br>≥15dB@787.5MHz±1.5MHz         | 5W         | N-F       | 270mm x 150mm x 95mm        |
| AP-CF2-15N-V2         | 757.5    | 757-758MHz<br>787-788MHz | ≤3.0dB<br>≤1.0dB | ≥15dB       | ≥15dB@757.5MHz±1.5MHz<br>≥15dB@787.5MHz±4MHz         | 5W         | N-F       | 270mm x 150mm x 95mm        |
| AP-CF2-757M788M-15NV2 | 757.5    | 757-758MHz<br>787-788MHz | ≤3.0dB<br>≤1.0dB | ≥15dB       | ≥15dB@757.5MHz±1.5MHz<br>≥15dB@787.5MHz±4MHz         | 5W         | N-F       | 482.6mm x 150mm x<br>43.6mm |
| AP-CF2-757M788M-15NV1 | 775.5    | 775-758MHz<br>787-788MHz | ≤1.0dB<br>≤3.0dB | ≥15dB       | ≥15dB@757.5MHz±4MHz<br>≥15dB@787.5MHz±1.5MHz         | 5W         | N-F       | 482.6mm x 150mm x<br>43.6mm |
| AP-CF1-787M788M-SV1   | 787.5    | 787-788MHz               | ≤3.0dB           | ≥15dB       | ≥15dB@787.5MHz±1.5MHz<br>≥90dB@787.5MHz±<br>312.5MHz | 5W         | N-F       | 263mm x 150mm x<br>43.6mm   |
| AP-CF1-791M821M-60S   | 806      | 791-821MHz               | ≤1.0dB           | ≥15dB       | ≥60dB@832MHz   | 1W         | SMA-F     | 110mm x 100mm x 42mm        |

| Model Number           | F0 (MHz) | Frequency Range          | Insertion Loss | Return Loss | Rejection   | Power (CW) | Connector                              | Size(L x W x H)           |
|------------------------|----------|--------------------------|----------------|-------------|---|------------|--|---------------------------|
| AP-CF1-824M835M-40QMA  | 829.5    | 824-835MHz               | ≤3.0dB         | ≥15dB       | ≥40dB@869-879MHz  | 2W         | QMA-F                                  | 60mm x 60mm x 35mm        |
| AP-CF1-860M870M-40NWP  | 866.5    | 863-870MHz               | ≤2.0dB         | ≥18dB       | ≥40dB@DC-850MHz<br>≥40dB@876-2700MHz                                | 5W         | In: N-F<br>Out: N-M                    | 120mm x 75mm x 41mm       |
| AP-CF1-864M872M-80S    | 868      | 864-872MHz               | ≤1.0dB         | ≥20.8dB     | ≥80dB@721-735MHz  | 30W        | SMA-F                                  | 54mm x 54mm x 38mm        |
| AP-CF1-869M879M-40QMA  | 874      | 869-879MHz               | ≤3.0dB         | ≥15dB       | ≥40dB@824-835MHz  | 2W         | QMA-F                                  | 60mm x 60mm x 35mm        |
| AP-CF1-GSMR-40S        | 887      | 885-889MHz               | ≤2.0dB         | ≥19dB       | ≥27dB@f0±5MHz<br>≥40dB@909.5~930MHz<br>≥70dB@930~934MHz             | 50W        | SMA-F                                  | 152mm x 72mm x 40mm       |
| AP-TF-GSMR-02DN        | 887      | 885-889MHz<br>930-934MHz | ≤1.0dB         | ≥17dB       | ≥40dB@DC-875MHz<br>≥40dB@899-920MHz<br>≥40dB@940-2000MHz            | 100W       | P1-P3:DIN(7/16)-F<br>P2-P4:DIN(7/16)-M | 293mm x 100mm x 44mm      |
| AP-CF-898-PB35         | 897.5    | 880-915MHz               | ≤2.0dB         | ≥14dB       | ≥40dB@DC-870MHz<br>≥40dB@925-2300MHz                                | 50W        | N-F                                    | AP-CF-898-PB35            |
| AP-CF1-880M915M-40QMA  | 897.5    | 880-915MHz               | ≤3.0dB         | ≥15dB       | ≥40dB@925-960MHz  | 2W         | QMA-F                                  | 100mm x 55mm x 33mm       |
| AP-CF1-890M915M-S25    | 897.5    | 890-915MHz               | ≤2.0dB         | ≥15dB       | ≥30dB@869-885MHz  | 50W        | SMA-F                                  | 100mm x 65mm x 36mm       |
| AP-CF1-896M915M-45S    | 905.5    | 896-915MHz               | ≤1.7dB         | ≥17dB       | ≥45dB@DC-890MHz<br>≥45dB@925-3800MHz                                | 10W        | SMA-F                                  | 96mm x 66mm x 36mm        |
| AP-CF1-902M928M-03N    | 915      | 902-928MHz               | ≤1.5dB         | ≥14dB       | ≥30dB@896MHz<br>≥30dB@934MHz<br>≥70dB@5~875MHz<br>≥70dB@955~2000MHz | 90W        | N-F                                    | 177.8mm x 76.2mm x 21.8mm |
| APTF-GSM39-Q6          | 940.5    | 921-960MHz               | ≤1.0dB         | ≥18dB       | ≥20dB@911MHz<br>≥20dB@970MHz  | 10W        | SMA-M                                  | 165mm x 80mm x 25.5mm     |
| AP-CF1-925M960M-60S    | 942.5    | 925-960MHz               | ≤1.0dB         | ≥15dB       | ≥60dB@915MHz  | 1W         | SMA-F                                  | 110mm x 100mm x 42mm      |
| AP-CF1-925M960M-40QMA  | 942.5    | 925-960MHz               | ≤3.0dB         | ≥15dB       | ≥40dB@880-915MHz  | 2W         | QMA-F                                  | 100mm x 55mm x 33mm       |
| AP-CF1-1020M1040M-40NF | 1030     | 1020-1040MHz             | ≤0.5dB         | ≥20dB       | ≥40dB@1080-4000MHz  | 100W       | N-F                                    | 117mm x 90mm x 30mm       |
| AP-CF1-1020M1040M-40NS | 1030     | 1020-1040MHz             | ≤0.6dB         | ≥18dB       | ≥40dB@DC-980 MHz<br>≥40dB@1080-3000 MHz                             | 20W        | Input: N-M<br>Output: SMA-F            | 100mm x 50mm x 28mm       |

| Model Number              | F0 (MHz)    | Frequency Range        | Insertion Loss | Return Loss | Rejection  | Power (CW) | Connector                   | Size(L x W x H)                 |
|---------------------------|-------------|------------------------|----------------|-------------|--|------------|-----------------------------|---------------------------------|
| AP-CF1-1020M1040M-40NSF   | 1030        | 1020-1040MHz           | ≤1.0dB         | ≥14dB       | ≥40dB@DC-1008MHz<br>≥40dB@1053-3000MHz   | 1W         | IN: N-F<br>OUT: SMA-F       | 91mm x 52mm x 32mm              |
| AP-CF1-1080M1100M-40NS    | 1090        | 1080-1100MHz           | ≤0.5dB         | ≥18dB       | ≥40dB@DC-1040MHz<br>≥40dB@1140-3000MHz   | 1W         | Input: N-M<br>Output: SMA-F | 100mm x 50mm x 28mm(56.0mm Max) |
| AP-CF1-1080M1100M-40NF3   | 1090        | 1080-1100MHz           | ≤1.0dB         | ≥15dB       | ≥40dB@DC-1065MHz<br>≥40dB@1113MHz-3000MHz  | 15W        | N-F                         | 110mm x 60mm x 38mm             |
| AP-CF1-1080M1100M-40NS2   | 1090        | 1080-1100MHz           | ≤1.0dB         | ≥18dB       | ≥40dB@DC-1067MHz<br>≥40dB@1111MHz-3000MHz  | 10W        | Input: N-F<br>Output: SMA-F | 110mm x 60mm x 38mm             |
| AP-CF1-1086M1094M-80S     | 1090        | 1086-1094MHz           | ≤0.5dB         | ≥20dB       | ≥80dB@921-960MHz   | 30W        | SMA-F                       | 54mm x 54mm x 32mm              |
| AP-CF1-1176M1177M-20NS    | 1176.5      | 1176-1177MHz           | ≤12dB          | ≥14dB       | ≥20dB@1175MHz<br>≥20dB@1178MHz   | 20W        | Input: N-F<br>Output: SMA-F | 133 mm x Max56 mm x 28mm        |
| AP-CF1-1427M1518M-80N     | 1472.5      | 1427-1518MHz           | ≤1.0dB         | ≥15dB       | ≥80dB@DC-1400MHz<br>≥50dB@1700-6000MHz   | 50W        | N-F                         | 130mm x 60mm x 29mm             |
| AP-CF1-1574M1575M-20NS    | 1575.4<br>2 | 1574.92-1575.92M<br>Hz | ≤14dB          | ≥13dB       | ≥20dB@1573.92MHz<br>≥20dB@1576.92MHz   | 20W        | Input: N-F<br>Output: SMA-F | 133 mm x Max56 mm x 28mm        |
| AP-CF1-1710M1785M-40QMA   | 1747.5      | 1710-1785MHz           | ≤3.0dB         | ≥15dB       | ≥40dB@1805-1880MHz   | 2W         | QMA-F                       | 78mm x 50mm x 24mm              |
| AP-CF1-1790M1800M-23NWP   | 1795        | 1790-1800MHz           | ≤2.0dB         | ≥14dB       | ≥23dB@1805-1900MHz   | 15W        | N-F                         | 96mmx66mmx35mm                  |
| AP-CF1-1805M1880M-60S     | 1842.5      | 1805-1880MHz           | ≤0.8dB         | ≥15dB       | ≥60dB@1785MHz<br>≥60dB@1920MHz   | 1W         | SMA-F                       | 110mm x 100mm x 42mm            |
| AP-CF1-1805M1880M-40QMA   | 1842.5      | 1805-1880MHz           | ≤3.0dB         | ≥15dB       | ≥40dB@1710-1785MHz   | 2W         | QMA-F                       | 78mm x 50mm x 24mm              |
| AP-CF1-1881.5M1884.5M-S40 | 1883        | 1881.5-1884.5MHz       | ≤3.8dB         | ≥14dB       | >30dB@1878MHz<br>>30dB@1888MHz   | 50W        | SMA-F                       | 74mm x 60mm x 29mm              |
| AP-CF1-1300M2600M-40S     | 1950        | 1300-2600MHz           | ≤0.8dB         | ≥11dB       | ≥48dB@DC-1100MHz<br>≥39dB@1100-1150MHz<br>≥25dB@1150-1200MHz<br>≥55dB@2800-6000MHz | 50W        | N-F                         | 184mm x 32mm x 31mm             |

| Model Number            | F0 (MHz) | Frequency Range              | Insertion Loss   | Return Loss | Rejection  | Power (CW) | Connector | Size(L x W x H)        |
|-------------------------|----------|------------------------------|------------------|-------------|--|------------|-----------|------------------------|
| AP-CF1-1920M1980M-40QMA | 1950     | 1920-1980MHz                 | ≤3.0dB           | ≥15dB       | ≥40dB@2110-2170MHz   | 2W         | QMA-F     | 55mm x 55mm x 33mm     |
| AP-CF1-1980M2010M-60N   | 1995     | 1980-2010MHz                 | ≤0.5dB           | ≥15dB       | ≥60dB@2170-2290MHz   | 50W        | N-F       | 105mm x 68mm x 33mm    |
| AP-CF1-1980M2120M-60N   | 2050     | 1980-2120MHz                 | ≤0.5dB           | ≥15dB       | ≥60dB@2170-2290MHz   | 50W        | N-F       | 120mm x 68mm x 33mm    |
| AP-CF1-2025M2110M-60N   | 2067.5   | 2025-2110MHz                 | ≤0.5dB           | ≥15dB       | ≥60dB@2170-2290MHz   | 50W        | N-F       | 105mm x 68mm x 33mm    |
| AP-CF1-2110M2170M-60S   | 2140     | 2110-2170MHz                 | ≤0.5dB           | ≥15dB       | ≥60dB@1970MHz<br>≥60dB@2400MHz   | 1W         | SMA-F     | 78mm x 60mm x 33mm     |
| AP-CF1-2110M2170M-40QMA | 2140     | 2110-2170MHz                 | ≤3.0dB           | ≥15dB       | ≥40dB@1920-1980MHz   | 2W         | QMA-F     | 55mm x 55mm x 33mm     |
| AP-CF1-1980M2098M-60N   | 2189     | 1980-2398MHz                 | ≤1.0dB           | ≥15dB       | ≥60dB@2110-2170MHz   | 50W        | N-F       | 175mm x 75mm x 35mm    |
| AP-CF1-2170M2290M-60N   | 2230     | 2170-2290MHz                 | ≤0.5dB           | ≥15dB       | ≥60dB@1980-2120MHz   | 50W        | N-F       | 120mm x 68mm x 33mm    |
| AP-CF1-2180M2300M-60N   | 2240     | 2180-2300MHz                 | ≤1.0dB           | ≥15dB       | ≥60dB@2110-2170MHz   | 50W        | N-F       | 225mm x 100mm x 35mm   |
| AP-CF1-2300M2400M-60S   | 2350     | 2300-2400MHz                 | ≤1.2dB           | ≥18dB       | ≥60dB@2200MHz<br>≥50dB@2450MHz   | 50W        | SMA-F     | 100mm x 45mm x 31mm    |
| AP-CF1-2.4G2.5G-85S     | 2450     | 2400-2500MHz                 | ≤0.8dB           | ≥18dB       | ≥40dB@DC-2370MHz<br>≥40dB@2530-2700MHz<br>≥85dB@2700-6000MHz                         | 80W        | SMA-F     | 110mm x 50.8mm x 19mm  |
| AP-CF1-2.4G2.5G-60S     | 2450     | 2400-2500MHz                 | ≤1.2dB           | ≥18dB       | ≥60dB@2300MHz<br>≥45dB@2550MHz   | 50W        | SMA-F     | 100mm x 55mm x 31mm    |
| AP-CF1-2405M2495M-30NWP | 2450     | 2405-2495MHz                 | ≤0.8dB           | ≥16dB       | ≥50dB@DC-2370MHz<br>≥30dB@2370-2390MHz<br>≥30dB@2510-2530MHz<br>≥50dB@2530-6000MHzdB | 100W       | N-F       | 143mm x 64mm x 35mm    |
| AP-CF2-2300M2620M-60S4  | 2460     | 2300-2400MHz<br>2570-2620MHz | ≤1.0dB<br>≤1.6dB | ≥18dB       | ≥60dB@DC-2200MHz<br>≥55dB@2496MHz<br>≥30dB@2555MHz<br>≥30dB@2635MHzdB                | 50W        | SMA-F     | 91mm x 59mm x 24.5mm   |
| AP-CF2-2300M2690M-30S5  | 2495     | 2300-2400MHz<br>2496-2690MHz | ≤1.2dB           | ≥18dB       | ≥55dB@700-2200MHz<br>≥30dB@2420-2470MHz  | 50W        | SMA-F     | 91mm x 59mm x 24.5mm   |
| AP-CF1-2500M2570M-45S   | 2535     | 2500-2570MHz                 | ≤2.4dB           | ≥18dB       | ≥45dB@DC-2450MHz<br>≥20dB@2575-3800MHz   | 30W        | SMA-F     | 67mm x 35.5mm x 24.5mm |



| Model Number            | F0 (MHz) | Frequency Range | Insertion Loss | Return Loss | Rejection   | Power (CW) | Connector                      | Size(L x W x H)              |
|-------------------------|----------|-----------------|----------------|-------------|---|------------|--------------------------------|------------------------------|
| AP-CF1-2500M2570M-40QMA | 2535     | 2500-2570MHz    | ≤3.0dB         | ≥15dB       | ≥40dB@2620-2690MHz  | 2W         | QMA-F                          | 67mm x 50mm x 33mm           |
| AP-CF1-2550M2590M-N5    | 2570     | 2550-2590MHz    | ≤1.0dB         | ≥18dB       | ≥40dB@2540MHz<br>≥20dB@2600MHz  | 30W        | Input: N-M<br>Output: N-F      | 158mm x 86mm x 44.5mm        |
| AP-CF1-2570M2615M-20S   | 2592.5   | 2570-2615MHz    | ≤1.2dB         | ≥18dB       | ≥60dB@2530MHz<br>≥20dB@2620MHz  | 50W        | SMA-F                          | 108mm x 98mm x 34mm          |
| AP-CF1-2500M2690M-70S   | 2595     | 2500-2690MHz    | ≤1.5dB         | ≥15dB       | ≥70dB@2400MHz<br>≥70dB@3000MHz  | 50W        | SMA-F                          | 95mm x 50mm x 24mm           |
| AP-CF1-2620M2690M-60S   | 2655     | 2620-2690MHz    | ≤0.4dB         | ≥15dB       | ≥60dB@2570MHz   | 1W         | SMA-F                          | 90mm x 60mm x 33mm           |
| AP-CF1-2620M2690M-40QMA | 2655     | 2620-2690MHz    | ≤3.0dB         | ≥15dB       | ≥40dB@2500-2570MHz  | 2W         | QMA-F                          | 67mm x 50mm x 33mm           |
| AP-CF1-2718M2722M-40S   | 2720     | 2718-2722MHz    | ≤2.2dB         | ≥14dB       | ≥40dB@DC-2711MHz<br>≥40dB@2729-6000MHzdB                                  | 10W        | SMA-F                          | 185 mm x 81mm x 18mm         |
| AP-CF1-2718M2722M-65S   | 2720     | 2718-2722MHz    | ≤4.0dB         | ≥14dB       | ≥65dB@DC-2711MHz<br>≥65dB@2729-6000MHz                                    | 10W        | SMA-F                          | 185 mm x 81mm x 18mm         |
| AP-CF1-2818M2822M-40S   | 2820     | 2818-2822MHz    | ≤2.2dB         | ≥14dB       | ≥40dB@DC-2811MHz<br>≥40dB@2829-6000MHz                                    | 10W        | SMA-F                          | 185 mm x 81mm x 18mm         |
| AP-CF1-2818M2822M-65S   | 2820     | 2818-2822MHz    | ≤4.0dB         | ≥14dB       | ≥65dB@DC-2811MHz<br>≥65dB@2829-6000MHz                                    | 10W        | SMA-F                          | 185 mm x 81mm x 18mm         |
| AP-CF1-2668M3132M-65S   | 2900     | 2668-3132MHz    | ≤4dB           | ≥14dB       | ≥65dB@DC-2618MHz<br>≥<br>65dB@3182MHz-6000MHz                             | 50W        | SMA-F                          | 120 mm x 40mm x 21.5mm       |
| AP-CF1-25003500-11J     | 3000     | 2500-3500MHz    | ≤0.7dB         | ≥12dB       | ≥55dB@0-1.7GHz<br>≥55dB@3.8-5.5GHz  | 10W        | SMA-F                          | 162.6mm x 24mm x 28mm        |
| AP-CF1-2800M3400M-9J40  | 3100     | 2800-3400MHz    | ≤1.2dB         | ≥12dB       | ≥40dB@DC-2600MHz<br>≥40dB@3700-10000MHz                                   | 50W        | SMA-F                          | 80mm x 20mm x 12mm           |
| AP-CF1-2800M3500M-10J40 | 3150     | 2800-3500MHz    | ≤1.2dB         | ≥12dB       | ≥35dB@DC-2600MHz)<br>≥40dB@3700-10000MHz                                  | 50W        | SMA-F                          | 80mm x 20mm x 12mm           |
| AP-CF1-2900M4100M-66S   | 3500     | 2900-4100MHz    | ≤0.3dB         | ≥11.7dB     | ≥66dB@2000MHz<br>≥58dB@5000MHz  | 10W        | SMA-F                          | 68.33 mm x36.07 mm x 14.98mm |
| AP-CF1-3300M3800M-S602  | 3550     | 3300-3800MHz    | ≤0.9dB         | ≥15dB       | ≥60dB@703-2690MHz<br>≥60dB@4000-6000MHz<br>≥13dB@3200MHz<br>≥25dB@3900MHz | 50W        | Input:<br>SMA-F<br>Output: N-F | 80mm x 40mm x 23mm           |
| AP-CF1-3400M3700M-50N   | 3550     | 3400-3700MHz    | ≤1.0dB         | ≥15dB       | ≥50dB@DC-3200MHz<br>≥50dB@3900-6000MHz                                    | 50W        | N-F                            | 95mm x 50mm x 25mm           |

| Model Number            | F0 (MHz) | Frequency Range  | Insertion Loss | Return Loss | Rejection   | Power (CW) | Connector        | Size(L x W x H)                |
|-------------------------|----------|------------------|----------------|-------------|---|------------|------------------|--------------------------------|
| AP-CF1-3550M3700M-45S   | 3625     | 3550-3700MHz     | ≤1.5dB         | ≥15dB       | ≥45dB@3340MHz<br>≥45dB@3800MHz  | 10W        | SMA-F            | 100mm x 80mm x 26mm            |
| AP-CF1-3.58G3.7G-56S    | 3640     | 3580-3700MHz     | ≤1.0dB         | ≥15dB       | ≥55dB@0-2.5GHz<br>≥55dB@5.5-8GHz  | 10W        | SMA-F            | 108mm x 33mm x 16mm            |
| AP-CF1-3.7G3.8G-55S     | 3750     | 3700-3800MHz     | ≤1.0dB         | ≥15dB       | ≥55dB@0-2.5GHz<br>≥55dB@5.5-8GHz  | 50W        | SMA-F            | 108mm x 33mm x 16mm            |
| AP-CF1-3.4G4.8G-13J     | 4100     | 3400-4800MHz     | ≤1.0dB         | ≥12dB       | ≥55dB@DC-2.7GHz<br>≥55dB@5.15-8.0GHzdB  | 10W        | SMA-F            | 132.2mm x 25mm x 18mm          |
| AP-CF1-35005000-11J     | 4250     | 3500-5000MHz     | ≤3.0dB         | ≥12dB       | ≥55dB@0-2.5GHz<br>≥55dB@5.5-8GHz  | 10W        | SMA-F            | 105.35mm x 17mm x 25mm         |
| AP-CF1-4967M5012M-70S   | 4985     | 4957.5-5012.5MHz | ≤0.5dB         | ≥18dB       | ≥70dB@4850 MHz<br>≥70dB@5130 MHz  | 10W        | SMA-F            | 100mmx65mmx22mm                |
| AP-CF1-3900M6100M-63S   | 5000     | 3900-6100MHz     | ≤0.3dB         | ≥11.7dB     | ≥63dB@2500MHz<br>≥53dB@7500MHz  | 50W        | SMA-F            | 62.74 mm x 29.72 mm x 14.98 mm |
| AP-CF1-5100M5900M-60S   | 5500     | 5100-5900MHz     | ≤0.5dB         | ≥15dB       | ≥60dB@6200MHz   | 50W        | SMA-F            | 95mm x 50mm x 22mm             |
| AP-CF1-5350M5650M-9S70  | 5500     | 5350-5650MHz     | ≤1.8dB         | ≥14dB       | ≥70dB@5000MHz<br>≥74dB@6000MHz  | 5W         | 2-φ<br>0.38*1.27 | 38.43mm x 18.75mm x 6.35mm     |
| AP-CF1-4950M6150M-18S60 | 5550     | 4950-6150MHz     | ≤1.5dB         | ≥12dB       | ≥60dB@DC-4400MHz<br>≥60dB@6800-12350MHz   | 5W         | 2-φ0.38          | 45mm x 18.05mm x 8.5mm         |
| AP-CF1-5470M5730M-10NWP | 5600     | 5470-5730MHz     | ≤1.0dB         | ≥15dB       | ≥65dB@0-4880 MHz<br>≥45dB@4880-5200 MHz<br>≥10dB@5200-5400 MHz<br>≥10dB@5800-6000 MHz<br>≥45dB@6000 MHz   | 10W        | N-F              | 95mm x 78mm x 30mm             |
| AP-CF1-5677M5702M-S6    | 5690     | 5677.5-5702.5MHz | ≤5.5dB         | ≥11.7dB     | ≥5dB@5660-5670 MHz<br>≥10dB@5650-5660 MHz<br>≥15dB@5640-5650 MHz<br>≥50dB@5605-5640 MHz<br>≥80dB@5605MHz<br>≥5dB@5710-5720 MHz<br>≥10dB@5720-5730 MHz<br>≥15dB@5730-5740 MHz<br>≥50dB@5740-5775 MHz<br>≥80dB@5775-12000 MHz | 10W        | MCX-F            | 78mm x 22mm x 9mm              |
| AP-CF1-5677M5702M-S6    | 5698.5   | 5677-5720MHz     | ≤5.5dB         | ≥11.7dB     | ≥80dBatFc-85MHz<br>Fc+85MHzto12GHz  | 10W        | MCX-F            | 78mm x 22mm x 9mm              |
| AP-CF1-5735M5815M-40S   | 5775     | 5735-5815MHz     | ≤1.5dB         | ≥16dB       | ≥40dB@5690 MHz<br>≥40dB@5835 MHz  | 4W         | SMA-F            | 95mmx50mmx22mm                 |

| Model Number              | F0 (MHz) | Frequency Range | Insertion Loss | Return Loss | Rejection  | Power (CW) | Connector                              | Size(L x W x H)               |
|---------------------------|----------|-----------------|----------------|-------------|--|------------|--|-------------------------------|
| AP-CF1-5720M5855M-50NWP   | 5787.5   | 5720-5855MHz    | ≤1.0dB         | ≥15dB       | ≥80dB@1000-4000 MHz<br>≥50dB@5500 MHz<br>≥50dB@6100 MHz                              | 10W        | N-F                                    | 82mm x 78mm x 30mm            |
| AP-CF1-5725M5875M-40S     | 5800     | 5725-5875MHz    | ≤1.2dB         | ≥18dB       | ≥40dB@5600MHz<br>≥40dB@6000MHz   | 50W        | SMA-F                                  | 75mm x 50mm x 22mm            |
| AP-CF1-5900M6100M-8S68    | 6000     | 5900-6100MHz    | ≤1.6dB         | ≥14dB       | ≥68dB@5000MHz<br>≥73dB@7000MHz   | 5W         | 2-φ<br>0.38*1.27                       | 28.91mm x 18.75mm x<br>6.35mm |
| AP-CF1-5800M7050M-19S60   | 6425     | 5800-7050MHz    | ≤1.5dB         | ≥12dB       | ≥60dB@DC-5400MHz<br>≥60dB@7500-14150MHz  | 5W         | 2-φ0.38                                | 45mm x 18.05mm x<br>8.5mm     |
| AP-CF1-6700M7950M-20S12   | 7325     | 6700-7950MHz    | ≤1.5dB         | ≥12dB       | ≥60dB@DC-6300MHz<br>≥60dB@8350-15950MHz  | 5W         | 2-φ0.38                                | 45mm x 18.05mm x<br>8.5mm     |
| AP-CF1-7G8G-10S40         | 7500     | 7000-8000MHz    | ≤0.9dB         | ≥11.7dB     | ≥40-50dB@6000MHz<br>≥40dB@9500MHz  | 5W         | 2-φ<br>0.38mm*1.27mm                   | 30.48mm x 15.24mm x<br>6.35mm |
| AP-CF1-7.2G7.8G-S8        | 7500     | 7200-7800MHz    | ≤1.0dB         | ≥18dB       | ≥75dB@DC-6300 MHz<br>≥80dB@8700-15000 MHz  | 10W        | SMA(3.5mm)<br>)-F<br>SMA(3.5mm)<br>)-M | 88mm x 20mm x 13mm            |
| AP-CF1-7250M7750M-PIN15   | 7500     | 7250-7750MHz    | ≤2.0dB         | ≥12.4dB     | ≥60dB@3850-5350MHz<br>≥20dB@7900-8000MHz<br>≥30dB@8000-8100MHz<br>≥45dB@8100-8400MHz | /          | RF PIN: 2-φ<br>0.457mm*1.77mm          | 59mm x 20mm x 9mm             |
| AP-CF1-7.9G8.4G-S50       | 8150     | 7900-8400MHz    | ≤0.5dB         | ≥15dB       | ≥50dB@7.25-7.75GHz   | 1W         | SMA-F                                  | 91mm x 42mm x 13.5mm          |
| AP-CF1-7.9G8.4G-30S       | 8150     | 7900-8400MHz    | ≤2.0dB         | ≥12dB       | ≥30dB@6.5-7.75GHz  | 1W         | SMA-F                                  | 79.3mm x 13.1mm x<br>8.7mm    |
| AP-CF1-7600M8800M-21S11   | 8200     | 7600-8800MHz    | ≤1.5dB         | ≥12dB       | ≥60dB@DC-7200MHz<br>≥60dB@9200-17650MHz  | 5W         | 2-φ0.38                                | 45mm x 18.05mm x<br>8.5mm     |
| AP-CF1-8280M8500M-70S     | 8390     | 8280-8500MHz    | ≤1.0dB         | ≥15.6dB     | ≥70dB@DC-8100 MHz<br>≥70dB@8700-9100 MHz   | 50W        | SMA-F                                  | 88mmx44mmx13mm                |
| AP-CF1-7000M101100M-14J58 | 8550     | 7000-10100MHz   | ≤0.5dB         | ≥11.7dB     | ≥58dB@6000MHz<br>≥53dB@11100-17955MHz  | 10W        | SMA-F                                  | 49.17mm x 14.86mm x<br>12.7mm |
| AP-CF1-7950M9550M-15S75   | 8750     | 7950-9550MHz    | ≤2.0dB         | ≥12dB       | ≥75dB@7300MHz<br>≥75dB@10200MHz  | 5W         | 2-φ0.38                                | 53mm x 15.24mm x<br>6.35mm    |
| AP-CF1-8350M9750M-7S87    | 9050     | 8350-9750MHz    | ≤1.0dB         | ≥11.7dB     | ≥87dB@7512.5MHz<br>≥90dB@10687.5MHz  | 5W         | 2-φ<br>0.38*1.27                       | 47.75mm x 14.38mm x<br>6.35mm |
| AP-CF1-8450M9650M-22S12   | 9050     | 8450-9650MHz    | ≤1.5dB         | ≥12dB       | ≥60dB@DC-8050MHz<br>≥60dB@10050-19350MHz   | 5W         | 2-φ0.38                                | 45mm x 15mm x 6.5mm           |

| Model Number              | F0 (MHz) | Frequency Range | Insertion Loss | Return Loss | Rejection   | Power (CW) | Connector                        | Size(L x W x H)             |
|---------------------------|----------|-----------------|----------------|-------------|---|------------|----------------------------------|-----------------------------|
| AP-CF1-8.9G9.5G-S7        | 9200     | 8900-9500MHz    | ≤1.7dB         | ≥14dB       | ≥25dB@8700MHz<br>≥25dB@9700MHz<br>≥60dB@8200MHz<br>≥60dB@10200MHz   | 5W         | 2-φ0.37                          | 44.24mm x 13.97mm x 7.75mm  |
| AP-CF1-9G9.6G-50S         | 9300     | 9000-9600MHz    | ≤0.5dB         | ≥15dB       | ≥30dB@0-6500MHz<br>≥40dB@6500-7100MHz<br>≥40dB@7100-8500MHz<br>≥40dB@10000-11000MHz<br>≥30dB@12000-18000MHz<br>≥60dB@18000-19200MHz | 20W        | SMA-F                            | 57.2mm x 11mm x 16mm        |
| AP-CF1-9075M9925M-4S43    | 9500     | 9075-9925MHz    | ≤1.2dB         | ≥14dB       | ≥40dB@8756MHz<br>≥43dB@10243MHz   | 5W         | 2-φ0.38*1.3                      | 40.13mm x 13.97mm x 6.35mm  |
| AP-CF1-9400M9600M-S4      | 9500     | 9400-9600MHz    | ≤1.0dB         | ≥14dB       | ≥50dB@7400MHz<br>≥70dB@5200-5400MHz<br>≥70dB@16600-16800MHz   | 10W        | Microstrip<br>needle<br>Φ0.5×2mm | 52mm x 15mm x 12mm          |
| AP-CF1-9.25G9.75G-S9      | 9500     | 9250-9750MHz    | ≤2.0dB         | ≥14dB       | ≥29dB@9.1GHz<br>≥34dB@9.9GHz  | /          | RF PIN: 2-φ<br>0.38mm*1.2<br>7mm | 49.53mm x 13.97mm x 6.35mm  |
| AP-CF1-9300M10600M-23S12  | 9950     | 9300-10600MHz   | ≤1.5dB         | ≥12dB       | ≥60dB@DC-8850MHz<br>≥60dB@11050-21250MHz  | 5W         | 2-φ0.38                          | 45mm x 15mm x 6.5mm         |
| AP-CF1-9.5G10.5G-9S75     | 10000    | 9500-10500MHz   | ≤2.0dB         | ≥12dB       | ≥75dB@8500MHz<br>≥75dB@11500MHz   | 5W         | 2-φ0.38                          | 37mm x 15mm x 6.5mm         |
| AP-CF1-9400M10800M-3S90   | 10100    | 9400-10800MHz   | ≤1.0dB         | ≥12dB       | ≥87dB@8562.5MHz<br>≥90dB@11737.5MHz   | 5W         | 2-φ<br>0.38*1.27                 | 49.15mm x 13.97mm x 6.35mm  |
| AP-CF1-8G12.5G-15J45      | 10250    | 8000-12500MHz   | ≤2.0dB         | ≥9.5dB      | ≥45dB@7300MHz<br>≥45dB@13200MHz   | 10W        | SMA-F                            | 50mm x 18mm x 7.5mm         |
| AP-CF1-9.45G11.05G-12J75  | 10250    | 9450-11050MHz   | ≤2.0dB         | ≥12dB       | ≥75dB@8800MHz<br>≥75dB@11700MHz   | 5W         | 2-φ0.38                          | 48mm x 15mm x 6mm           |
| AP-CF1-9.9G10.8G-S6       | 10350    | 9900-10800MHz   | ≤1.0dB         | ≥15.6dB     | ≥50dB@8.35GHz<br>≥50dB@12.35GHz   | 2W         | SMA-F                            | 52.6mm x 12.7mm x 11.9mm    |
| AP-CF1-10460M11260M-39J   | 10860    | 10460-11260MHz  | ≤1.3dB         | ≥14dB       | ≥39dB@10100MHz<br>≥30dB@11500MHz  | 5W         | 2-φ0.38*1.3                      | 38.35 mm x13.97 mm x 6.35mm |
| AP-CF1-10250M11550M-24S11 | 10900    | 10250-11550MHz  | ≤1.5dB         | ≥12dB       | ≥60dB@DC-9750MHz<br>≥60dB@12050-23150MHz  | 5W         | 2-φ0.38                          | 45mm x 15mm x 6.5mm         |
| AP-CF1-10950M12550M-16S75 | 11750    | 10950-12550MHz  | ≤2.0dB         | ≥12dB       | ≥75dB@10300MHz<br>≥75dB@13200MHz  | 5W         | 2-φ0.38                          | 52.14mm x 13.1mm x 6.35mm   |
| AP-CF1-11200M12550M-25S11 | 11875    | 11200-12550MHz  | ≤1.5dB         | ≥12dB       | ≥60dB@DC-10700MHz<br>≥60dB@13050-25150MHz   | 5W         | 2-φ0.38                          | 45mm x 15mm x 6.5mm         |

| Model Number                 | F0 (MHz) | Frequency Range    | Insertion Loss                     | Return Loss | Rejection   | Power (CW) | Connector                      | Size(L x W x H)                |
|------------------------------|----------|--------------------|------------------------------------|-------------|---|------------|--------------------------------|--------------------------------|
| AP-CF1-10587.5M13187.5M-4S90 | 11887.5  | 10587.5-13187.5MHz | ≤0.5dB                             | ≥11.7dB     | ≥60dB@6568.75MHz<br>≥60dB@15956.25MHz                       | 10W        | SMA-F                          | 35.76mm x 12.7mm x 12.7mm      |
| AP-CF1-11500M12500M-26S9     | 12000    | 11500-12500MHz     | ≤1.3dB                             | ≥12dB       | ≥45dB@11000MHz<br>≥49dB@13000MHz                            | 5W         | 2-φ0.38                        | 40mm x 14mm x 6.4mm            |
| AP-CF1-11.8G12.2G-42PIN      | 12000    | 11800-12200MHz     | ≤1.1dB                             | ≥14dB       | ≥39dBc@10500MHz<br>≥42dBc@13500MHz                          | 5W         | 2-φ0.38*1.3                    | 24.13mm x 13.97mm x 6.35mm     |
| AP-CF1-12831M13419M-6S47     | 13125    | 12831-13419MHz     | ≤1.5dB                             | ≥14dB       | ≥47dB@12125MHz<br>≥50dB@14125MHz                            | 1W         | 2-φ0.38*1.27                   | 32.08mm x 13.97mm x 6.35mm     |
| AP-CF1-12.7G14.9G-42PIN      | 13800    | 12700-14900MHz     | ≤0.8dB                             | ≥11.7dB     | ≥139dBc@11400MHz<br>≥42dBc@16450MHz                         | 5W         | 2-φ0.38*1.3                    | 32.14mm x 13.97mm x 7.87mm     |
| AP-CF1-13.75G14.5G-30S1      | 14125    | 13750-14500MHz     | ≤1.5dB                             | ≥18dB       | ≥70dB@DC-12800MHz<br>≥30dB@14700-15450MHz<br>≥70dB@15450MHz | 10W        | SMA-F / SMA-M                  | 88.2mm x 15.0mm (Max) x 10.2mm |
| AP-CF1-13.7G14.8G-58PIN      | 14250    | 13700-14800MHz     | ≤1.3dB                             | ≥14dB       | ≥18dBc@13375MHz<br>≥58dBc@16000MHz                          | 5W         | 2-φ0.38mm*1.3mm                | 35.26mm x 13.97mm x 6.35mm     |
| AP-CF1-14.5G15.3G-S6         | 14900    | 14500-15300MHz     | ≤2.0dB                             | ≥14dB       | ≥50dB@13.3GHz<br>≥50dB@16.5GHz                              | 10W        | SMA-M<br>SMA-F                 | 56.6mm x 10mm x 12.7mm         |
| AP-CF1-15450M16550M-3S62     | 16000    | 15450-16550MHz     | ≤1.9dB                             | ≥14dB       | ≥62dB@14838MHz<br>≥66dB@17161MHz                            | 5W         | 2-φ0.38*1.3                    | 44.78mm x 13.97mm x 6.35mm     |
| AP-CF1-16450M17550M-2S62     | 17000    | 16450-17550MHz     | ≤2.0dB                             | ≥14dB       | ≥62dB@15858MHz<br>≥66dB@18161MHz                            | 5W         | 2-φ0.38*1.3                    | 46.36mm x 13.97mm x 6.35mm     |
| AP-CF1-15.9G20.1G-50S1       | 18000    | 15900-20100MHz     | ≤1.0dB@3GHz BW<br>≤3.0dB@4.2GHz BW | ≥12.7dB     | ≥50dB@9.75GHz<br>≥50dB @ 24.75GHz                           | 1W         | SMA-F                          | 39mm (57.8mm) x 18.5mm         |
| AP-CF1-18G24G-9J             | 21000    | 18000-24000MHz     | ≤1.5dB                             | ≥9.5dB      | ≥50dB@DC-15GHz<br>≥50dB@28GHz                               | 1W         | PIN: φ0.49mm*1.9mm or 2.92mm_F | 40.2mm x 18.5mm x 13mm         |
| AP-CF1-20.95G23.05G-9J       | 22000    | 20950-23050MHz     | ≤1.5dB                             | ≥11.7dB     | ≥35dB@20GHz<br>≥35dB@24GHz<br>≥50dB@46GHz                   | 2W         | SMA(2.92mm)-F<br>SMA(2.92mm)-M | 48.2mm x 17.5mm x 7mm          |

| Model Number           | F0 (MHz) | Frequency Range | Insertion Loss | Return Loss | Rejection  | Power (CW) | Connector                             | Size(L x W x H)         |
|------------------------|----------|-----------------|----------------|-------------|--|------------|---------------------------------------|-------------------------|
| AP-CF1-21G23G-9J       | 22000    | 20950-23050MHz  | ≤1.5dB         | ≥11.7dB     | ≥35dB@20.2GHz<br>≥35dB@23.8GHz<br>≥50dB@46GHz                                | 2W         | SMA(2.92mm)-F<br>SMA(2.92mm)-M        | 48.2mm x 17.5mm x 7mm   |
| AP-CF1-22.5G23.5G-S7   | 23000    | 22500-23500MHz  | ≤2.0dB         | ≥14dB       | ≥50dB@21.5GHz<br>≥50dB@24.5GHz   | 10W        | SMA(2.92mm)-M<br>SMA(2.92mm)-F        | 43.4mm x 7mm x 12.7mm   |
| AP-CF1-21.5G25G-9J     | 23250    | 21500-25000MHz  | ≤1.0dB         | ≥11.7dB     | ≥40dB@DC-18.8GHz<br>≥40dB@26.9-37.5GHz                                       | 2W         | SMA(2.92mm)-F<br>SMA(2.92mm)-M        | 40.6mm x 17.5mm x 7mm   |
| AP-CF1-24.25G27.5G-S13 | 25875    | 24250-27500MHz  | ≤1.5dB         | ≥18dB       | ≥50dB@DC-23GHz<br>≥30dB@23-23.875GHz<br>≥30dB@27.875-29GHz<br>≥50dB@29-43GHz | 10W        | SMA(2.92mm)-F                         | 62.81mm x 8mm x 18.5mm  |
| AP-CF1-22G30G-11J      | 26000    | 22000-30000MHz  | ≤2.0dB         | ≥11.7dB     | ≥40dB@DC-19.5GHz<br>≥40dB@33-45GHz   | 2W         | SMA(2.92mm)-F<br>SMA(2.92mm)-M        | 40.2mm x 17.5mm x 7mm   |
| AP-CF1-22G40G-15J      | 31000    | 22000-40000MHz  | ≤1.5dB         | ≥9.5dB      | ≥40dB@DC-19.5 Hz<br>≥40dB@44GHz  | 2W         | SMA(2.92mm)-F<br>SMA(2.92mm)-M        | 43.4mm x 17.5mm x 7.5mm |
| AP-CF1-30G33G-S7       | 31500    | 30000-33000MHz  | ≤2.0dB         | ≥15dB       | ≥60dB@37000-43000MHz   | 10W        | SMA(2.92mm)-F                         | 39.6mm x 13mm x 8mm     |
| AP-CF1-24G40G-9J       | 32000    | 24000-40000MHz  | ≤1.5dB         | ≥9.5dB      | ≥45dB@DC-20GHz   | 1W         | PIN: φ<br>0.49mm*1.9mm or<br>2.92mm_F | 30.6mm x 18.5mm x 13mm  |
| AP-CF1-24G40G-9J45     | 32000    | 24000-40000MHz  | ≤1.5dB         | ≥905dB      | ≥45dB@DC-20GHz   | 10W        | 2.92mm-F                              | 30.6mm x 18.5mm x 7mm   |
| AP-CF1-33G36G-S7       | 34500    | 33000-36000MHz  | ≤1.0dB         | ≥15dB       | ≥60dB@42000-50000MHz   | 10W        | SMA(2.92mm)-F                         | 39.6mm x 13mm x 8mm     |
| AP-CF1-30G40G-15J      | 35000    | 30000-40000MHz  | ≤2.0dB         | ≥10.2dB     | ≥30dB@DC-29GHz<br>≥30dB@41GHz  | 10W        | SMA(2.92mm)-F                         | 51mm x 17.5mm x 7.5mm   |
| AP-CF1-36G39G-S7       | 37500    | 36000-39000MHz  | ≤2.0dB         | ≥15dB       | ≥60dB@44000-50000MHz   | 10W        | SMA(2.92mm)-F                         | 39.6mm x 13mm x 8mm     |
| AP-CF1-40G41G-S7       | 40500    | 40000-41000MHz  | ≤2.0dB         | ≥15dB       | ≥60dB@DC-39000MHz<br>≥60dB@42000-55000MHz                                    | 10W        | SMA(2.92mm)-F                         | 39.6mm x 13mm x 8mm     |

## LC Filters

| Model Number                  | Type     | Frequency Range  | Insertion Loss                                 | Return Loss | Rejection                                    | Power (CW) | Connector | Size(L x W x H)    |
|-------------------------------|----------|--|--|-------------|--|------------|-----------|--------------------|
| AP-LCF-98-20                  | Bandpass | 87.5-108MHz  | ≤2.0dB   | ≥15dB       | ≥60dB@DC-53MHz&143-500MHz                    | 20W        | SMA-F     | 50mm x 20mm x 15mm |
| AP-LCF1-174M240M-2S70         | Bandpass | 174-240MHz   | ≤3.0dB   | ≥15dB       | ≥80dB@88-108MHz<br>≥70dB@150MHz              | 2W         | SMA-F     | 50mm x 20mm x 15mm |
| AP-LCF1-200M500M-50SF         | Bandpass | 200-500MHz   | ≤0.7dB   | ≥14dB       | ≥30dBc@DC-170MHz<br>≥30dBc@700-2000MHz       | 1W         | SMA-50F   | 50mm x 20mm x 15mm |
| AP-LCF-227.5-25               | Bandpass | 202-240MHz   | ≤2.0dB   | ≥16dB       | ≥32dB@DC-174MHz<br>≥60dB@380-470MHz          | 5W         | SMA-F     | 50mm x 20mm x 15mm |
| AP-LCF1-270M310M-26NF         | Bandpass | 270-310MHz   | ≤1.5dB   | ≥14dB       | ≥26dBc@DC~155MHz&340MHz<br>≥30dBc@380-395MHz | 10W        | N- F      | 50mm x25mm x 20mm  |
| AP-LCF1-350M360M-26NF         | Bandpass | 350-360MHz   | ≤2.5dB   | ≥14dB       | ≥26dBc@DC~180MHz&700MHz<br>≥30dBc@380-395MHz | 10W        | N- F      | 50mm x25mm x 20mm  |
| AP-LCF1-2.7G18G-45S           | Bandpass | 2700-18000Hz   | ≤2.0dB   | -           | ≥40dB@DC-2.25GHz,<br>≥45dB@19-25GHz          | 15W        | SMA-F     | 55mm x 30mm x 10mm |
| AP-LCC2-66M470M-40N           | Combiner | 66-180MHz<br>380-470MHz                                | ≤1.0dB   | ≥15dB       | ≥40dB@380-470MHz<br>≥40dB@66-180MHz          | 50W        | N- F      | 60mm x 66mm x 22mm |
| AP-LCC2-130M2700M-30NF        | Combiner | 130-480MHz<br>680-2700MHz                              | ≤1.0dB   | -           | -  | 20W        | N- F      | 60mm x 40mm x 25mm |
| AP-LCC2-140M3500M-4310F4<br>0 | Combiner | 140-180MHz<br>380-3500MHz                              | ≤1.0dB   | ≥15dB       | ≥40dB@380-3500MHz<br>≥40dB@140-180MHz        | 20W        | 4.3-10/F  | 65mm x 78mm x 30mm |
| AP-LCC5-758M2170M-S20         | Combiner | 780.5MHz<br>875MHz<br>942.5MHz<br>1847.5MHz<br>2140MHz | ≤3.0dB<br>≤3.0dB<br>≤3.0dB<br>≤2.0dB<br>≤2.0dB | ≥15dB       | -  | 1W         | SMA-F     | 70mm x 40mm x 14mm |

## Highpass Filters

| Model Number          | Passband Frequency | Insertion Loss | Rejection                         | VSWR |
|-----------------------|--------------------|----------------|-----------------------------------|------|
| AP-HPF1-1G18G-01      | 1000-18000MHz      | 2.0dB          | 60dB@DC-0.8GHz                    | 2    |
| AP-HPF1-1.1G9G-02     | 1100-9000MHz       | 2.0dB          | 60dB@DC-9.46GHz                   | 2    |
| AP-HPF1-1.2G13G-03    | 1200-1300MHz       | 2.0dB          | 40dB@0.96-1.01GHz,50dB@DC-0.96GHz | 2    |
| AP-HPF1-1.5G14G-04    | 1500-14000MHz      | 1.5dB          | 50dB@DC-1.17GHz                   | 1.5  |
| AP-HPF1-1.6G12.75G-05 | 1600-12750MHz      | 1.5dB          | 40dB@DC-1.1GHz                    | 1.8  |
| AP-HPF1-12G18G-06     | 2000-18000MHz      | 2.0dB          | 45dB@DC-1.8GHz                    | 1.8  |
| AP-HPF1-2.4835G18G-07 | 24835-18000Hz      | 2.0dB          | 60dB@DC-1.664GHz                  | 2    |
| AP-HPF1-12.5G18G-08   | 12500-18000MHz     | 1.5dB          | 40dB@DC-2.0GHz                    | 1.6  |
| AP-HPF1-2.65G7.5G-09  | 2650-7500MHz       | 1.8dB          | 70dB@DC-2.45GHz                   | 2    |
| AP-HPF1-2.7835G18G-10 | 27835-18000MHz     | 1.8dB          | 70dB@DC-2.4835GHz                 | 2    |
| AP-HPF1-3G12.75G-11   | 3000-12750MHz      | 1.5dB          | 40dB@DC-2.7GHz                    | 2    |
| AP-HPF1-3G18G-12      | 3000-18000MHz      | 2.0dB          | 40dB@DC-2.7GHz                    | 1.6  |
| AP-HPF1-3.1G18G-13    | 3100-18000MHz      | 1.5dB          | 40dB@DC-2.48GHz                   | 1.5  |
| AP-HPF1-4G18G-14      | 4000-18000MHz      | 2.0dB          | 45dB@DC-3.6GHz                    | 1.8  |
| AP-HPF1-4.2G12.75G-15 | 4200-12750MHz      | 2.0dB          | 40dB@DC-3.8GHz                    | 1.7  |
| AP-HPF1-4.492G18G-16  | 4492-18000MHz      | 2.0dB          | 40dB@DC-4.2GHz                    | 2    |
| AP-HPF1-5G22G-17      | 5000-22000MHz      | 2.0dB          | 60dB@DC-4.48GHz                   | 1.7  |
| AP-HPF1-5.85G18G-18   | 5850-18000MHz      | 2.0dB          | 60dB@DC-3.9195GHz                 | 2    |
| AP-HPF1-6G18G-19      | 6000-18000MHz      | 1.0dB          | 50dB@DC-0.61GHz,25dB@2.5GHz       | 2    |
| AP-HPF1-6G24G-20      | 6000-24000MHz      | 2.0dB          | 60dB@DC-5.4GHz                    | 1.8  |
| AP-HPF1-6.5G18G-21    | 6500-18000MHz      | 2.0dB          | 40@5.85GHz,62@DC-5.59GHz          | 1.8  |
| AP-HPF1-7G18G-22      | 7000-18000MHz      | 2.0dB          | 40dB@DC-6.5GHz                    | 2    |
| AP-HPF1-8G18G-23      | 8000-18000MHz      | 2.0dB          | 50dB@DC-6.8GHz                    | 2    |
| AP-HPF1-8G25G-24      | 8000-25000MHz      | 2.0dB          | 60dB@DC-7.25GHz                   | 1.8  |
| AP-HPF1-8.4G17G-25    | 8400-17000MHz      | 5.0dB          | 85dB@8.025-8.35GHz                | 1.5  |
| AP-HPF1-11G24G-26     | 11000-24000MHz     | 2.5dB          | 60dB@DC-6.0GHz,40dB@6.0-9.0GHz    | 1.8  |
| AP-HPF1-11.7G15G-27   | 1170-15000MHz      | 1.0dB          | 15dB@DC-9.8GHz                    | 1.3  |



## Notch Filters

| Model Number  | Notch Frequency | Rejection | Passband 1 | Passband 2 | Insertion Loss | VSWR |
|---------------|-----------------|-----------|------------|------------|----------------|------|
| AP-617M652A   | 617-652MHz      | 40dB      | DC-602     | 667-2000   | 1.50dB         | 1.8  |
| AP-663M698A   | 663-698MHz      | 40dB      | DC-648     | 713-2000   | 1.50dB         | 1.8  |
| AP-703M748A   | 703-784MHz      | 40dB      | DC-688     | 763-3500   | 1.50dB         | 1.8  |
| AP-758M803A   | 758-803MHz      | 40dB      | DC-743     | 818-3500   | 1.50dB         | 1.8  |
| AP-791M821A   | 791-821 MHz     | 40dB      | DC-781     | 831-2500   | 3.00dB         | 1.8  |
| AP-824M846A   | 824-846MHz      | 45dB      | DC-790     | 866-2550   | 3.00dB         | 1.8  |
| AP-824M894A   | 824-894MHz      | 50dB      | DC-790     | 928-2100   | 2.00dB         | 1.8  |
| AP-850M960A   | 850-960MHz      | 40dB      | DC-830     | 980-2000   | 2.50dB         | 1.8  |
| AP-876M960A   | 876-960MHz      | 50dB      | DC-836     | 1000-2200  | 2.00dB         | 1.8  |
| AP-897M907A   | 897-907MHz      | 40dB      | DC-887     | 917-1000   | 1.50dB         | 1.8  |
| AP-925M960A   | 925-960MHz      | 40dB      | DC-915     | 970-3000   | 2.00dB         | 1.8  |
| AP-930M960A   | 930-960MHz      | 60dB      | DC-910     | 980-3000   | 2.50dB         | 2    |
| AP-995M1005A  | 995-1005MHz     | 60dB      | DC-980     | 1020-1800  | 2.50dB         | 2    |
| AP-1240M1260A | 1240-1260MHz    | 50dB      | DC-1230    | 1270-4000  | 2.00dB         | 1.8  |
| AP-1447M1467A | 1447-1467MHz    | 60dB      | DC-1422    | 1492-5000  | 2.50dB         | 2    |
| AP-1565M1585A | 1565-1585MHz    | 60dB      | DC-1558    | 1592-3300  | 2.50dB         | 2    |
| AP-1710M1785A | 1710-1785MHz    | 40dB      | DC-1690    | 1800-3500  | 1.50dB         | 1.8  |
| AP-1742M1752A | 1742-1752MHz    | 60dB      | DC-1732    | 1762-3500  | 1.50dB         | 1.8  |
| AP-1805M1850A | 1805-1850MHz    | 40dB      | DC-1760    | 1895-3800  | 1.50dB         | 1.8  |
| AP-1850M1910A | 1850-1910MHz    | 40dB      | DC-1830    | 1930-3500  | 1.50dB         | 1.8  |
| AP-1865M1895A | 1865-1895MHz    | 40dB      | DC-1810    | 1930-5700  | 1.50dB         | 1.8  |
| AP-1880M1920A | 1880-1920MHz    | 60dB      | DC-1870    | 1930-6000  | 1.50dB         | 1.8  |
| AP-1890M1910A | 1890-1910MHz    | 50dB      | DC-1880    | 1820-8000  | 2.50dB         | 2    |
| AP-2010M2025A | 2010-2025MHz    | 50dB      | DC-1986    | 2050-4000  | 2.50dB         | 2    |
| AP-2110M2170A | 2110-2170MHz    | 60dB      | DC-2070    | 2210-5800  | 2.50dB         | 2    |
| AP-2225M2375A | 2225-2375MHz    | 55dB      | DC-2150    | 2450-3500  | 2.50dB         | 2    |
| AP-2300M2320A | 2300-2320MHz    | 50dB      | DC-2290    | 2330-3000  | 2.50dB         | 2    |
| AP-2320M2370A | 2320-2370MHz    | 60dB      | DC-2290    | 2400-5800  | 2.50dB         | 2    |
| AP-2360M2380A | 2360-2380MHz    | 50dB      | DC-2350    | 2390-3000  | 2.50dB         | 2    |

| Model Number  | Notch Frequency | Rejection | Passband 1 | Passband 2 | Insertion Loss | VSWR |
|---------------|-----------------|-----------|------------|------------|----------------|------|
| AP-2380M2400A | 2380-2400MHz    | 50dB      | DC-2370    | 2410-3000  | 2.50dB         | 2    |
| AP-2490M2510A | 2490-2510MHz    | 50dB      | DC-2480    | 2520-6000  | 1.50dB         | 1.8  |
| AP-2500M2570A | 2500-2570MHz    | 40dB      | DC-2440    | 2630-8000  | 2.00dB         | 2    |
| AP-2496M2690A | 2496-2690MHz    | 40dB      | DC-2481    | 2705-6500  | 1.50dB         | 1.8  |
| AP-2500M2570B | 2500-2570MHz    | 40dB      | DC-2470    | 2600-9000  | 1.50dB         | 1.8  |
| AP-2535M2575A | 2535-2575MHz    | 45dB      | DC-2520    | 2590-6000  | 1.50dB         | 1.8  |
| AP-2620M2690A | 2620-2690MHz    | 40dB      | DC-2590    | 2720-9000  | 1.50dB         | 1.8  |
| AP-3300M3850A | 3300-3850MHz    | 40dB      | DC-3270    | 3880-8000  | 3.00dB         | 1.8  |
| AP-3550M3700A | 3550-3700MHz    | 40dB      | DC-3500    | 3750-11000 | 1.50dB         | 1.8  |
| AP-3740M3670A | 3740-3760MHz    | 50dB      | DC-3730    | 3770-6000  | 2.00dB         | 1.8  |
| AP-3800M4200A | 3800-4200MHz    | 40dB      | DC-3770    | 4230-8000  | 3.00dB         | 2    |
| AP-4400M5000A | 4400-5000MHz    | 40dB      | DC-4370    | 5030-8000  | 3.00dB         | 2    |
| AP-5150M5850A | 5150-5850MHz    | 40dB      | DC-5120    | 5880-12000 | 3.00dB         | 2    |
| AP-617M652A   | 617-652MHz      | 80dB      | DC-605     | 664-2000   | 2.00dB         | 2    |
| AP-663M698B   | 663-698MHz      | 80dB      | DC-651     | 710-2000   | 2.00dB         | 2    |
| AP-699M716A   | 699-716MHz      | 80dB      | DC-684     | 729-2000   | 2.00dB         | 2    |
| AP-1427M1432A | 1427-1432MHz    | 80dB      | DC-1412    | 1447-3000  | 2.00dB         | 2    |
| AP-1432M1517A | 1432-1517MHz    | 80dB      | DC-1407    | 1542-4200  | 2.00dB         | 2    |
| AP-1695M1710A | 1695-1710MHz    | 80dB      | DC-1685    | 1720-5000  | 2.00dB         | 2    |
| AP-2110M2200A | 2110-2200MHz    | 80dB      | DC-2085    | 2225-6000  | 2.00dB         | 2    |
| AP-2300M2400A | 2300-2400MHz    | 80dB      | DC-2273    | 2427-6000  | 2.00dB         | 2    |
| AP-2400M2485A | 2400-2485MHz    | 80dB      | DC-2375    | 2510-5500  | 2.00dB         | 2    |
| AP-3300M3800A | 3300-3800MHz    | 80dB      | DC-3250    | 3850-8000  | 5.00dB         | 2.5  |
| AP-3800M4200B | 3800-4200MHz    | 80dB      | DC-3750    | 4250-8000  | 3.00dB         | 2    |
| AP-4400M5000B | 4400-5000MHz    | 80dB      | DC-4240    | 5060-8000  | 5.00dB         | 2.5  |
| AP-5150M5250A | 5150-5250MHz    | 80dB      | DC-5125    | 5275-8000  | 3.00dB         | 2    |
| AP-5250M5350A | 5250-5350MHz    | 80dB      | DC-5225    | 5375-8000  | 3.00dB         | 2    |
| AP-5470M5725A | 5470-5725MHz    | 80dB      | DC-5420    | 5775-8000  | 3.00dB         | 2    |
| AP-5725M5850A | 5725-5850MHz    | 80dB      | DC-5695    | 5880-8000  | 3.00dB         | 2    |

## Diplexer/Duplexer



- Frequency: 10MHz-67.5GHz
- Features: Low insertion loss, high isolation, high power, low PIM, compact size, vibration & impact resistance, waterproof, custom design available
- Technology: Cavity, LC, Ceramic, Dielectric, Microstrip, Helical, Waveguide

| Model Number              | Frequency Range | Low Band<br>High Band          | Insertion Loss   | Return Loss | Isolation      | Power (CW) | Connector                       | Size(L x W x H)              |
|---------------------------|-----------------|--------------------------------|------------------|-------------|----------------|------------|---------------------------------|------------------------------|
| AP-CC2-BK24-xFWP          | 80-2700MHz      | 80-520MHz<br>694-2700MHz       | ≤0.4dB<br>≤0.6dB | ≥16.5dB     | ≥50dB          | 120W       | 4.3/10 F                        | 187.2mm x 130.4mm x 31.8 mm  |
| AP-CC2-1200M2300M-S3      | 1200-2300MHz    | 1200-1300MHz<br>2100-2300MHz   | ≤1.6dB           | ≥17dB       | ≥100dB         | 10W        | SMA-F                           | 166.64mm x 40.64mm x 16.26mm |
| AP-CD2-1273M1327M-70D     | 1273-1327MHz    | 1273-1277MHz<br>1323-1327MHz   | ≤0.4dB           | ≥16dB       | ≥70dB          | 300W       | DIN-F                           | 265mm x 115mm x 43mm         |
| AP-CC2-1427M3800M-4310F   | 1427-3800MHz    | 1427-2690MHz<br>3300-3800MHz   | ≤0.25dB          | ≥18dB       | ≥60dB<br>≥30dB | 100W       | 4.3-10 / F                      | 122mm x 70mm x 35mm          |
| AP-CD2-1518M1675M-120TN   | 1518-1675MHz    | 1518-1559MHz<br>1626.5-1675MHz | ≤0.8dB<br>≤1.8dB | ≥15dB       | ≥85dB          | 40W        | ANT:TNC-F<br>RX/TX:SMA-F        | 230mm x 150mm x 59mm         |
| AP-CD2-1518M1675M-85S     | 1518-1675MHz    | 1518-1560MHz<br>1626.5-1675MHz | ≤2.0dB           | ≥14dB       | ≥85dB          | 100W       | SMA-F                           | 100mm x 100mm x 29mm         |
| AP-CD2-1710M1880M-60N     | 1710-1880MHz    | 1710-1785MHz<br>1805-1880MHz   | ≤0.8dB<br>≤2.0dB | ≥15dB       | ≥60dB          | 10W        | N-F                             | 160mm x 115mm x 34mm         |
| AP-CD2-1710M1880M-60NWP   | 1710-1880MHz    | 1710-1785MHz<br>1805-1880MHz   | ≤0.8dB<br>≤2.0dB | ≥15dB       | ≥60dB          | 10W        | N-F                             | 170mm x 130mm x 42mm         |
| AP-CD2-1710M1880M-4310S70 | 1710-1880MHz    | 1710-1785MHz<br>1805-1880MHz   | ≤1.5dB           | ≥18dB       | ≥70dB          | 50W        | ANT: 4.3-10/F<br>TX/RX: SMA/F   | 110mm x 100mm x 35mm         |
| AP-CD2-1710M1880M-4310N70 | 1710-1880MHz    | 1710-1785MHz<br>1805-1880MHz   | ≤1.5dB           | ≥18dB       | ≥70dB          | 100W       | ANT: 4.3-10 / F<br>TX/RX: N / F | 110mm x 100mm x 35mm         |
| AP-CD2-1710M2155M-70NWP   | 1710-2155MHz    | 1710-1755MHz<br>2110-2155MHz   | ≤0.5dB           | ≥18dB       | ≥70dB          | 100W       | N-F                             | 105mm x 80mm x 32mm          |
| AP-CD2-1710M2170M-90S     | 1710-2170MHz    | 1710-1770MHz<br>2110-2170MHz   | ≤0.7dB           | ≥18dB       | ≥90dB          | 200W       | SMA-F                           | 100mm x 70mm x 24mm          |
| AP-CD2-17102700-20N       | 1710-2700MHz    | 1710-2170MHz<br>2500-2700MHz   | ≤0.8dB           | ≥15dB       | ≥20dB          | 100W       | N-F                             | 120mm x 98mm x 36mm          |
| AP-CD2-1850M1995M-70NWP   | 1805-1995MHz    | 1805-1915MHz<br>1930-1995MHz   | ≤1.5dB           | ≥18dB       | ≥70dB          | 100W       | N-F                             | 125mm x 105mm x 32mm         |

| Model Number            | Frequency Range | Low Band<br>High Band         | Insertion Loss   | Return Loss | Isolation | Power (CW) | Connector                       | Size(L x W x H)            |
|-------------------------|-----------------|-------------------------------|------------------|-------------|-----------|------------|---------------------------------|----------------------------|
| AP-CD2-1920M2170M-90SP  | 1920-2170MHz    | 1920-1980MHz<br>2110-2170MHz  | ≤1.0dB           | ≥18dB       | ≥90dB     | 20W        | ANT: SMA-F<br>LOW/HIGH:<br>PSMP | 135mm x 65mm x 24mm        |
| AP-CD2-1920M2170M-85NSP | 1920-2170MHz    | 1920-1980MHz<br>2110-2170MHz  | ≤1.0dB           | ≥20dB       | ≥85dB     | 40W        | ANT: N-F<br>TX/RX: SMA-F        | 120mm x 85mm x 31mm        |
| AP-CD2-1920M2170M-60N   | 1920-2170MHz    | 19920-1980MHz<br>2110-2170MHz | ≤0.5dB           | ≥15dB       | ≥60dB     | 10W        | N-F                             | 110mm x 90mm x 34mm        |
| AP-CD2-1920M2200M-70NS  | 1920-2200MHz    | 1920-2010MHz<br>2110-2200MHz  | ≤0.5dB           | ≥16dB       | ≥70dB     | 200W       | ANT: N-F<br>Other: SMA-F        | 74mm x 90mm x 24mm         |
| AP-CD2-1920M2200M-4310S | 1920-2200MHz    | 1920-2010MHz<br>2110-2200MHz  | ≤0.5dB           | ≥16dB       | ≥70dB     | 200W       | ANT: 4.3-10/F<br>Other: SMA/F   | 74mm x 90mm x 24mm         |
| AP-CD2-1920M2200M-4310S | 1920-2200MHz    | 1920-2010MHz<br>2110-2200MHz  | ≤0.5dB           | ≥16dB       | ≥70dB     | 200W       | ANT: 4.3-10/F<br>Other: SMA/F   | 74mm x 90mm x 24mm         |
| AP-CD2-1980M2300M-90N   | 1980-2300MHz    | 1980-2110MHz<br>2170-2300MHz  | ≤1.0dB           | ≥18dB       | ≥90dB     | 50W        | N-F                             | 145mm x 115mm x 33mm       |
| AP-CC2-2300M2615M-60S2  | 2300-2615MHz    | 2300-2400MHz<br>2575-2615MHz  | ≤1.0dB<br>≤2.3dB | ≥18dB       | ≥60dB     | 30W        | SMA-F                           | 91mm x 59mm x 24.5mm       |
| AP-CC2-2300M2690M-70SF  | 2300-2690MHz    | 2300-2400MHz<br>2496-2690MHz  | ≤0.6dB           | ≥15dB       | ≥90dB     | 50W        | SMA-F                           | 120mm x 70mm x 24mm        |
| AP-CC2-2300M2690M-60S3  | 2300-2690MHz    | 2300-2400MHz<br>2496-2690MHz  | ≤1.0dB<br>≤0.8dB | ≥18dB       | ≥60dB     | 50W        | SMA-F                           | 91mm x 59mm x 24.5mm       |
| AP-CC2-2300M3800M-60S   | 2300-3800MHz    | 2300-2400MHz<br>3300-3800MHz  | ≤0.9dB           | ≥18dB       | ≥60dB     | 30W        | SMA-F                           | 91mm x 59mm x 24.5mm       |
| AP-CD-2332-01WP         | 2305-2360MHz    | 2305-2315MHz<br>2350-2360MHz  | ≤2.5 dB          | ≥18dB       | ≥70dB     | 100W       | N-F                             | 135.8mm x 96.2mm x 39.5 mm |
| AP-CF2-2400M5875M-80S   | 2400-5875MHz    | 2400-2500MHz<br>5725-5875MHz  | ≤0.8dB           | ≥17.7dB     | ≥80dB     | 10W        | SMA-F                           | 96mmx80mmx26mm             |
| AP-CD2-2496M4200M-90S   | 2496-4200MHz    | 2496-2690MHz<br>3300-4200MHz  | ≤1.0dB           | ≥10dB       | ≥90dB     | 50W        | SMA-F                           | 127mm x 63mm x 51mm        |
| AP-CD2-2500M2690M-90SP  | 2500-2690MHz    | 2500-2570MHz<br>2620-2690MHz  | ≤1.0dB           | ≥18dB       | ≥90dB     | 20W        | ANT: SMA-F<br>LOW/HIGH:<br>PSMP | 135mm x 65mm x 24mm        |
| AP-CD2-2500M2690M-60N   | 2500-2690MHz    | 2500-2570MHz<br>2620-2690MHz  | ≤0.5dB           | ≥15dB       | ≥60dB     | 10W        | N-F                             | 120mm x 100mm x 34mm       |
| AP-CD2-2500M2690M-70S   | 2500-2690MHz    | 2500-2570MHz<br>2620-2690MHz  | ≤0.8dB           | ≥16dB       | ≥70dB     | 50W        | SMA-F                           | 95mm x 85mm x 24mm         |
| AP-CC2-2575M3800M-60S   | 2575-3800MHz    | 2575-2615MHz<br>3300-3800MHz  | ≤2.6dB<br>≤0.8dB | ≥18dB       | ≥40dB     | 30W        | SMA-F                           | 91mm x 59mm x 24.5mm       |

| Model Number             | Frequency Range | Low Band<br>High Band                                    | Insertion Loss   | Return Loss | Isolation      | Power (CW) | Connector                      | Size(L x W x H)       |
|--------------------------|-----------------|--|------------------|-------------|----------------|------------|--------------------------------|-----------------------|
| AP-CD2-335M470M-80N      | 335-470MHz      | 335-345MHz<br>455-470MHz                                 | ≤0.8dB           | ≥17.7dB     | ≥80dB          | 100W       | N-F                            | 185mm x 95mm x 61mm   |
| AP-CC2-350M2690M-4310FWP | 350-2690MHz     | 350-1000MHz<br>1427-2690MHz                              | ≤0.4dB           | ≥20dB       | ≥55dB          | 300W       | 4.3-10-F                       | 205mm x 100mm x 45mm  |
| AP-CC2-380M2690M-4310F   | 380-2690MHz     | 380-960MHz<br>1427-2690MHz                               | ≤0.5dB           | ≥16dB       | ≥50dB          | 250W       | 4.3-10:F                       | 161mm x 83.5mm x 35mm |
| AP-CC2-380M2690M-4310FWP | 380-2690MHz     | 380-960MHz<br>1427-2690MHz                               | ≤0.4dB           | ≥19dB       | ≥50dB          | 300W       | 4.3-10-F                       | 173mm x 100mm x 45mm  |
| AP-CC2-380M2700M-50N     | 380-2700MHz     | 380-960MHz<br>1695-2700MHz                               | ≤0.3dB           | ≥18dB       | ≥55dB          | 200W       | N-F                            | 161mm x 83.5mm x 30mm |
| AP-TD-382.5^392.5-1DN    | 380-395MHz      | 380-385MHz<br>390-395MHz                                 | ≤1.4dB           | ≥20dB       | ≥90dB          | 30W        | DIN-F<br>N-F                   | 289mm x 99mm x 58mm   |
| AP-CD-380~390-H72        | 380-396.5MHz    | 380-386.5MHz<br>390-396.5MHz                             | ≤2.0dB           | ≥18dB       | ≥65dB          | 20W        | SMA-F                          | 145mm x 106mm x 72mm  |
| AP-CD2-380M396.5M-65D    | 380-396.5MHz    | 380-386.5MHz<br>390-396.5MHz                             | ≤1.7dB           | ≥18dB       | ≥65dB          | 150W       | DIN(7/16)-F                    | 265mm x 150mm x 61mm  |
| AP-CD2-380M396M-65D2     | 380-396.5MHz    | 380-386.5MHz<br>390-396.5MHz                             | ≤1.2dB           | ≥19dB       | ≥65dB          | 200W       | DIN(7/16)-F                    | 483mm x 190mm x 66mm  |
| AP-CD2-380M396.5M-H72NS  | 380-396.5MHz    | 380-386.5MHz<br>390-396.5MHz                             | ≤2.0dB           | ≥18dB       | ≥65dB          | 20W        | ANT: N-F<br>HIGH/LOW:<br>SMA-F | 145mm x 106mm x 72 mm |
| AP-CD2-380M396.5M-H72LP  | 380-396.5MHz    | 380-386.5MHz<br>390-396.5MHz                             | ≤2.0dB<br>≤2.7dB | ≥18dB       | ≤92dB<br>≤65dB | 50W        | N-F                            | 227mm x 117mm x 72mm  |
| AP-CD2-380M396M-90NSLP   | 380-396.5MHz    | 380-386.5MHz<br>390-396.5MHz                             | ≤2.0dB           | ≥15dB       | ≥75dB          | 100W       | ANT: N-F<br>UL & DL:<br>SMA-F  | 242mm x 150mm x 63mm  |
| AP-CD4-380M425M-65S      | 380-425MHz      | 380-386.5MHz<br>390-396.5MHz<br>410-415MHz<br>420-425MHz | ≤1.8dB           | ≥16dB       | ≥65dB          | 20W        | SMA-F                          | 290mm x 106mm x 73mm  |
| AP-CD4-380M465M-65S      | 380-465MHz      | 380-385MHz<br>450-455MHz<br>390-395MHz<br>460-465MHz     | ≤1.8dB           | ≥16dB       | ≥65dB          | 20W        | SMA-F                          | 276mm x 106mm x 76mm  |

| Model Number            | Frequency Range | Low Band<br>High Band                                    | Insertion Loss | Return Loss | Isolation | Power (CW) | Connector                         | Size(L x W x H)       |
|-------------------------|-----------------|--|----------------|-------------|-----------|------------|-----------------------------------|-----------------------|
| AP-CD4-380M470M-65S     | 380-470MHz      | 380-386.5MHz<br>390-396.5MHz<br>455-460MHz<br>465-470MHz | ≤1.9dB         | ≥16dB       | ≥65dB     | 20W        | SMA-F                             | 276mm x 106mm x 76mm  |
| AP-CD2-380M470M-4310F50 | 380-470MHz      | 380-395MHz<br>410-470MHz                                 | ≤0.5dB         | ≥18dB       | ≥50dB     | 50W        | 4.3-10/ F                         | 230mm x 130mm x 51mm  |
| AP-TD-390-440-7NF       | 380-470MHz      | 380-400MHz<br>410-470MHz                                 | ≤0.7dB         | ≥17dB       | ≥40dB     | 50W        | N-F                               | 220mm x 136mm x 61mm  |
| AP-CD2-380M470M-4310FWP | 380-470MHz      | 380-400MHz<br>410-470MHz                                 | ≤0.7dB         | ≥21dB       | ≥55dB     | 50W        | 4.3-10-F                          | 238mm x 200mm x 60mm  |
| AP-TD-400-410-02N       | 400-410MHz      | 399.5-400.5MHz<br>409.5-410.5MHz                         | ≤1.0dB         | ≥20dB       | ≥70dB     | 100W       | N-F                               | 422mm x162mm x 67mm   |
| AP-TD-409-417-16S       | 404-416MHz      | 403-405MHz<br>415-417MHz                                 | ≤5.1dB         | ≥20dB       | ≥85dB     | 100W       | SMA-F                             | 180mm x 180mm x 50mm  |
| AP-CD2-410M425M-H72N4   | 410-425MHz      | 410-415MHz<br>420-425MHz                                 | ≤2.0dB         | ≥18dB       | ≥65dB     | 20W        | N-F                               | 145mm x 106mm x 72 mm |
| AP-CD2-410M427M-80S     | 410-427MHz      | 410-417MHz<br>420-427MHz                                 | ≤1.7dB         | ≥20dB       | ≥80dB     | 200W       | SMA-F                             | 210mm x 210mm x 69mm  |
| AP-CD2-415M430M-H72N3   | 415-430MHz      | 415-420MHz<br>425-430MHz                                 | ≤2.0dB         | ≥18dB       | ≥65dB     | 20W        | N-F                               | 145mm x 106mm x 72 mm |
| AP-CD2-418M430M-4310FS  | 418-430MHz      | 418-420MHz<br>428-430MHz                                 | ≤1.0dB         | ≥18dB       | ≥50dB     | 20W        | ANT: 4.3-10 / F<br>Other: SMA / F | 170mm x 135mm x 39mm  |
| AP-CD2-418M430M-NSF     | 418-430MHz      | 418-420MHz<br>428-430MHz                                 | ≤1.5dB         | ≥18dB       | ≥60dB     | 20W        | ANT: N/ F<br>Other: SMA/F         | 170mm x135mm x 39mm   |
| AP-TD-420-430-16S       | 420-430MHz      | 419-420MHz<br>431-433MHz                                 | ≤5.1dB         | ≥20dB       | ≥85dB     | 100W       | SMA-F                             | 180mm x 180mm x 50mm  |
| AP-CD2-433M928M-80S2    | 433.05-928MHz   | 433.05-434.79MHz<br>863-928MHz                           | ≤0.5dB         | ≥15dB       | ≥80dB     | 10W        | SMA-F                             | 205mm x 100mm x 40mm  |
| AP-CD2-433M928M-80S     | 433.05-928MHz   | 433.05-434.79MHz<br>902-928MHz                           | ≤0.5dB         | ≥15dB       | ≥80dB     | 10W        | SMA-F                             | 205mm x 100mm x 40mm  |
| AP-CC2-433M2.5G-DIN20   | 433-2500MHz     | 433-434MHz<br>2400-2500MHz                               | ≤0.3dB         | ≥20dB       | ≥20dB     | 400W       | 7/16-F                            | 135mm x 85mm x 48mm   |
| AP-CD2-440M470M-85N     | 439.5-470.5MHz  | 439.5-440.5MHz<br>469.5-470.5MHz                         | ≤1.0dB         | ≥15dB       | ≥70dB     | 100W       | N-F                               | 210mm x 162mm x 70mm  |
| AP-TD-4675-5550-Q6S     | 4400-5850MHz    | 4400-4950MHz<br>5250-5850MHz                             | ≤1.5dB         | ≥17dB       | ≥40dB     | 20W        | SMA-F                             | 88mm x 82mm x 16mm    |

| Model Number              | Frequency Range          | Low Band<br>High Band  | Insertion Loss   | Return Loss | Isolation      | Power (CW) | Connector                      | Size(L x W x H)       |
|---------------------------|--------------------------|--|------------------|-------------|----------------|------------|--------------------------------|-----------------------|
| AP-TD-450-470-16S         | 450-470MHz               | 449-451MHz<br>469-471MHz   | ≤4.2dB           | ≥20dB       | ≥75dB          | 100W       | SMA-F                          | 180mm x 180mm x 50mm  |
| AP-CD2-452.5M467.5M-100NS | 452.5-467.5MHz           | 452.5-457.5MHz<br>462.5-467.5MHz                                   | ≤1.5dB           | ≥18dB       | ≥100dB         | 50W        | ANT: N-F<br>Rx/Tx: SMA-F       | 215mm x 200mm x 50mm  |
| AP-CD2-452.5M467.5M-S100  | 452.5-467.5MHz           | 452.5-457.5MHz<br>462.5-467.5MHz                                   | ≤1.5dB           | ≥18dB       | ≥100dB         | 50W        | ANT: 4.3/10-F<br>RX/TX: SMA-F  | 255mm x 205mm x 50mm  |
| AP-TD-457~467-6NF         | 455-470MHz               | 455-460MHz<br>465-470MHz   | ≤1.6dB           | ≥18dB       | ≥90dB          | 50W        | N-F                            | 220mm x 135mm x 66mm  |
| AP-CD2-460M470M-90S       | 460-470MHz               | 460-465MHz<br>465-470MHz   | ≤5.0dB           | ≥18dB       | ≥90dB          | 100W       | SMA-F                          | 180mm x 180mm x 50mm  |
| AP-TD-470-490-16S-M2      | 470-490MHz               | 469.5-470.5MHz<br>489.5-490.5MHz                                   | ≤4.9dB           | ≥20dB       | ≥92dB          | 100W       | SMA-F                          | 180mm x 180mm x 50mm  |
| AP-TD-470-490-16S         | 470-490MHz               | 469-471MHz<br>489-491MHz   | ≤4.2dB           | ≥20dB       | ≥75dB          | 100W       | SMA-F                          | 180mm x 180mm x 50mm  |
| AP-CD2-483487-80NWP       | 483.0125-487.76<br>25MHz | 483.0125-484.7625<br>MHz<br>486.0125-487.7625<br>MHz               | ≤3.0dB           | ≥18dB       | ≥80dB          | 20W        | N-F                            | 441mm x 265mm x 154mm |
| AP-CD4-490M500M-85B       | 490.7499.62MHz           | 490.7-491MHz<br>496.3-496.62MHz<br>493.7-494MHz<br>499.3-499.62MHz | ≤3.5dB           | ≥15dB       | ≥83dB          | 10W        | SMB-M                          | 325mm x 245mm x 129mm |
| AP-TD-490-520-16S         | 490-520MHz               | 489-491MHz<br>519-521MHz   | ≤4.2dB           | ≥20dB       | ≥75dB          | 100W       | SMA-F                          | 180mm x 180mm x 50mm  |
| AP-TD-500-510-16S-M2      | 500-510MHz               | 498.5-499.5MHz<br>511.5-512.5MHz                                   | ≤4.9dB           | ≥20dB       | ≥92dB          | 100W       | N-F                            | 180mm x 180mm x50 mm  |
| AP-CC2-698M2690M-50N      | 698-2690MHz              | 698-2200MHz<br>2400-2690MHz  | ≤1.5dB<br>≤2.0dB | ≥14dB       | ≥50dB          | 20W        | N-F                            | 85mm x 65mm x 22mm    |
| AP-CD-698-2700-04WP       | 698-2700MHz              | 698-960MHz<br>1710-2700MHz   | ≤0.8dB           | ≥15dB       | ≥40dB          | 50W        | N-F                            | 135mm x 87mm x 51.5mm |
| AP-CC2-698M4200M-50NFWP   | 698-4200MHz              | 698-2690MHz<br>3300-4200MHz  | ≤0.3dB           | ≥16dB       | ≥30dB<br>≥60dB | 200W       | N-F                            | 145mm x 85mm x 37mm   |
| AP-CD2-698M746M-70NWP     | 698-746MHz               | 698-716MHz<br>728-746MHz   | ≤1.1dB           | ≥18dB       | ≥70dB          | 100W       | N-F                            | 190mm x 112mm x 44mm  |
| AP-CD2-703M788M-70N       | 703-788MHz               | 703-733MHz<br>758-788MHz   | ≤1.5dB           | ≥20dB       | ≥55dB          | 20W        | ANT:N-F<br>Low; High:<br>SMA-F | 125mm x 88mm x 40mm   |
| AP-CD2-703M803M-60S       | 703-803MHz               | 703-748MHz<br>758-803MHz   | ≤0.8dB           | ≥17dB       | ≥60dB          | 100W       | SMA-F                          | 150mm x 122mm x 36mm  |

| Model Number          | Frequency Range | Low Band<br>High Band                  | Insertion Loss             | Return Loss | Isolation | Power (CW) | Connector  | Size(L x W x H)          |
|-----------------------|-----------------|--|----------------------------|-------------|-----------|------------|--|--------------------------|
| AP-CD2-703M803M-80S   | 703-803MHz      | 703-748MHz<br>758-803MHz               | ≤1.5dB                     | ≥17dB       | ≥80dB     | 50W        | SMA-F  | 132mm x 110.5mm x 33.5mm |
| AP-CD2-733791-65S     | 733-791MHz      | 733-736MHz<br>788-791MHz               | ≤1.5dB                     | ≥20dB       | ≥65dB     | 10W        | SMA-F  | 145mm x 106mm x 35mm     |
| AP-CD2-746M787M-70NWP | 746-787MHz      | 746-756MHz<br>777-787MHz               | ≤1.0dB                     | ≥18dB       | ≥70dB     | 100W       | N-F  | 160mm x 112mm x 44mm     |
| AP-CD2-757M930M-70N   | 757-930MHz      | 757-788MHz<br>900-930MHz               | ≤0.5dB                     | ≥15dB       | ≥70dB     | 5W         | N-F  | 137mm x 60mm x 32mm      |
| AP-CD2-758M798M-90S   | 758-798MHz      | 758-768MHz<br>788-798MHz               | ≤1.5dB                     | ≥15dB       | ≥90dB     | 50W        | SMA-F  | 140mm x 90mm x 35mm      |
| AP-CD2-758M806M-85B   | 758-806MHz      | 758-776MHz<br>788-806MHz               | ≤1.0dB                     | ≥18dB       | ≥80dB     | 25W        | SMB-F  | 160mm x 150mm x 36mm     |
| AP-CD-813S            | 758-869MHz      | 758-776MHz<br>788-824MHz<br>851-869MHz | ≤2.0dB<br>≤1.0dB<br>≤2.0dB | ≥18dB       | ≥80dB     | 50W        | SMA-F  | 183mm x 164mm x 36mm     |
| AP-CD-PS700-2         | 758-906MHz      | 758-776MHz<br>788-806MHz               | ≤2.0dB<br>≤1.0dB           | ≥18dB       | ≥80dB     | 100W       | SMA-F  | 160mm x 150mm x 36mm     |
| AP-CD-784S            | 763-805MHz      | 763-775MHz<br>793-805MHz               | ≤1.3dB                     | ≥16dB       | ≥95dB     | 100W       | SMA-F  | 230mm x 70mm x 36mm      |
| AP-CD2-763M805M-115S  | 763-805MHz      | 763-775MHz<br>793-805MHz               | ≤4.5dB                     | ≥18dB       | ≥115dB    | 50W        | SMA-F  | 200mm x 132mm x 36mm     |
| AP-CD2-791M862M-60N   | 791-860MHz      | 791-821MHz<br>832-862MHz               | ≤1.0dB                     | ≥15dB       | ≥60dB     | 10W        | N-F  | 220mm x 110mm x 33mm     |
| AP-CD2-791M862M-90S   | 791-862MHz      | 791-821MHz<br>832-862MHz               | ≤1.2dB                     | ≥15dB       | ≥90dB     | 200W       | SMA-F  | 160mm x 105mm x 44mm     |
| AP-CD-791M862M-80S    | 791-862MHz      | 791-821MHz<br>832-862MHz               | ≤1.1dB                     | ≥20dB       | ≥80dB     | 80W        | ANT(IP67):<br>4.3-10<br>Rx/Tx: SMA-F                           | 124mm x 120mm x 45mm     |
| AP-CD2-LTEB20-100SP   | 791-862MHz      | 791-821MHz<br>832-862MHz               | ≤1.5dB                     | ≥20dB       | ≥100dB    | 50W        | ANT1/ANT2:<br>4310-F<br>RX1/RX2:<br>SMP-M<br>TX1/TX2:<br>SMA-M | 350mm x 230mm x 40mm     |
| AP-TD-833-9-7QS       | 806-860MHz      | 806-815MHz<br>851-860MHz               | ≤2.5dB                     | ≥14dB       | ≥85dB     | 15W        | SMA-F  | 206mm x 127mm x 36mm     |
| AP-TD-833-9-7QS-CP    | 806-860MHz      | 806-815MHz<br>851-860MHz               | ≤3.0dB                     | ≥14dB       | ≥80dB     | 15W        | SMA-F  | 128mm x 128mm x 36 mm    |
| AP-CD2-806M860M-85S   | 806-860MHz      | 806-815MHz<br>851-860MHz               | ≤4.2dB                     | ≥14dB       | ≥85dB     | 15W        | SMA-F  | 206mm x 127mm x 36mm     |



| Model Number           | Frequency Range | Low Band<br>High Band      | Insertion Loss    | Return Loss | Isolation      | Power (CW) | Connector                         | Size(L x W x H)        |
|------------------------|-----------------|----------------------------|-------------------|-------------|----------------|------------|-----------------------------------|------------------------|
| AP-CD-PS800-611S       | 806-869MHz      | 806-824MHz<br>851-869MHz   | ≤1.0dB            | ≥18dB       | ≥80dB          | 25W        | SMA-F                             | 134mm x 130.5mm x 36mm |
| AP-CD2-PS800-611B      | 806-869MHz      | 806-824MHz<br>851-869MHz   | ≤1.3dB            | ≥16dB       | ≥80dB          | 25W        | SMB-F                             | 160mm x 150mm x 36mm   |
| AP-CD2-806870-65S      | 806-870MHz      | 806-825MHz<br>851-870MHz   | ≤1.5dB            | ≥20dB       | ≥65dB          | 10W        | SMA-F                             | 145mm x 106mm x 35mm   |
| AP-CD2-418M425M-4310FS | 814-825MHz      | 418-420MHz<br>423-425MHz   | ≤1.7dB            | ≥18dB       | ≥50dB          | 20W        | ANT: 4.3-10 / F<br>Other: SMA / F | 177mm x 140mm x 39mm   |
| AP-CD2-814M894M-60S    | 814-894MHz      | 814-849MHz<br>859-894MHz   | ≤1.0dB            | ≥17dB       | ≥60dB          | 100W       | SMA-F                             | 150mm x 122mm x 36mm   |
| AP-CD2-814M894M-70NWP  | 814-894MHz      | 814-849MHz<br>859-894MHz   | ≤1.1dB            | ≥18dB       | ≥70dB          | 100W       | N-F                               | 175mm x 145mm x 44mm   |
| AP-CD-892-1955-03WP    | 824-2200MHz     | 824-960MHz<br>1710-2200MHz | ≤0.8dB            | ≥15dB       | ≥40dB          | 50W        | N-F                               | 135mm x 87mm x 51.5mm  |
| AP-CD2-824M894M-80NS   | 824-894MHz      | 824-849MHz<br>869-894MHz   | ≤1.1dB            | ≥20dB       | ≥80dB          | 80W        | ANT: N-F<br>Other: SMA-F          | 124mm x 120mm x 47mm   |
| AP-CD2-824M915M-80NS   | 824-915MHz      | 824-834MHz<br>880-915MHz   | ≤1.0dB            | ≥15dB       | ≥80dB          | 100W       | ANT: N-F<br>Other: SMA-F          | 140mm x 100mm x 34mm   |
| AP-CD2-825M890M-60S    | 825-890MHz      | 825-845MHz<br>870-890MHz   | ≤1.5dB            | ≥18dB       | ≥60dB          | 25W        | SMA-F                             | 140mm x 62mm x 34mm    |
| AP-CD2-850M1990M-80S   | 850-1990MHz     | 850-960MHz<br>1700-1990MHz | ≤1.0dB            | ≥14dB       | ≥80dB          | 100W       | SMA-F                             | 140mm x 65mm x 41mm    |
| AP-CD2-850M1990M-80N   | 850-1990MHz     | 850-960MHz<br>1700-1990MHz | ≤1.0dB            | ≥14dB       | ≥80dB          | 100W       | N-F                               | 140mm x 65mm x 41mm    |
| AP-882-1960-AS3        | 869-1990MHz     | 869-894MHz<br>1930-1990MHz | ≤1.0dB            | ≥15dB       | ≥40dB          | 150W       | COM: N-F<br>Other: SMA-F          | 125mm x 104mm x 46mm   |
| AP-CC2-869M1990M-50S   | 869-1990MHz     | 869-894MHz<br>1930-1990MHz | ≤1.2dB            | ≥15dB       | ≥50dB          | 40W        | SMA-F                             | 100mmx 97mm x30mm      |
| AP-CD2-873925-95N      | 873-925MHz      | 873-880MHz<br>918-925MHz   | ≤1.0dB<br>≤2.0dB  | ≥20dB       | ≥85dB          | 50W        | N-F                               | 272mm x 96mm x 50mm    |
| AP-TD-878-925.5-6NF    | 876-930MHz      | 876-880MHz<br>921-930MHz   | ≤1.0dB<br>≤1.2dB  | ≥20dB       | ≥90dB<br>≥95dB | 50W        | N-F                               | 174mm x 72mm x 57mm    |
| AP-CD2-GSMR-S82        | 880-934MHz      | 880-889MHz<br>930-934MHz   | ≤1.05dB<br>≤2.0dB | ≥19dB       | ≥90dB          | 50W        | SMA-F                             | 178mm x 94mm x 48mm    |
| AP-CD2-880M960M-90S    | 880-960MHz      | 880-915MHz<br>925-960MHz   | ≤1.5dB            | ≥15dB       | ≥90dB          | 20W        | SMA-F                             | 150mm x100mm x 43mm    |
| AP-CD2-880M960M-60N    | 880-960MHz      | 880-915MHz<br>925-960MHz   | ≤1.0dB            | ≥15dB       | ≥60dB          | 10W        | N-F                               | 220mm x 110mm x 33mm   |

| Model Number             | Frequency Range | Low Band<br>High Band            | Insertion Loss    | Return Loss | Isolation | Power (CW) | Connector              | Size(L x W x H)          |
|--------------------------|-----------------|----------------------------------|-------------------|-------------|-----------|------------|------------------------|--------------------------|
| AP-TD-GSMR-5S            | 885-934MHz      | 885-889MHz<br>930-934MHz         | ≤1.0dB            | ≥16dB       | ≥70dB     | 25W        | SMA-F                  | 158mm x 82mm x 43.5mm    |
| AP-CD-GSMR-S81           | 885-934MHz      | 885-889MHz<br>930-934MHz         | ≤1.05dB<br>≤1.1dB | ≥18dB       | ≥90dB     | 50W        | SMA-F                  | 178mm x 82mm x 43.5mm    |
| AP-CD2-GSMR-70S          | 885-934MHz      | 885-889MHz<br>930-934MHz         | ≤1.8dB<br>≤1.1dB  | ≥19dB       | ≥70dB     | 50W        | SMA-F                  | 178mm x 94mm x 77mm      |
| AP-CD-GSMR-S8            | 885-934MHz      | 885-889MHz<br>930-934MHz         | ≤2.0dB            | ≥16dB       | ≥70dB     | 25W        | SMA-F                  | 178mm x 82mm x 43.5mm    |
| AP-CD2-890M960M-60S      | 890-960MHz      | 890-915MHz<br>935-960MHz         | ≤1.5dB            | ≥18dB       | ≥60dB     | 25W        | SMA-F                  | 125mm x 88mm x 34mm      |
| AP-CD2-902.2M927.6M-2S90 | 902.2-927.6MHz  | 902.2-915MHz<br>923.2-927.6MHz   | ≤3.0dB            | ≥14dB       | ≥40dB     | 10W        | SMA-F                  | 140mm x 115mm x 36mm     |
| AP-CD2-902.3M927.5M-S60  | 902.3-927.5MHz  | 902.3-914.9MHz<br>923.3-927.5MHz | ≤1.5dB<br>≤2.0dB  | ≥14dB       | ≥60dB     | 10W        | SMA-F                  | 105.4mm x 105.4mm x 55mm |
| AP-CC2-925M1880M-50S     | 925-1880MHz     | 925-960MHz<br>1805-1880MHz       | ≤1.2dB            | ≥15dB       | ≥50dB     | 40W        | SMA-F                  | 100mmx 97mm x30mm        |
| AP-CD2-5150M5875M-80NS   | 5150-5875MHz    | 5150-5350MHz<br>5725-5875MHz     | ≤1.8dB            | ≥18dB       | ≥80dB     | 50W        | ANT:N-F<br>LO/Hi:SMA-F | 112mm x 92mm x 27mm      |

## Multiplexer



- Frequency: 10MHz-67.5GHz
- Features: Low insertion loss, high isolation, high power, low PIM, compact size, vibration & impact resistance, waterproof, custom design available.
- Technology: Cavity, LC, Ceramic, Dielectric, Microstrip, Helical, Waveguide

| Model Number           | Frequency Range | Channels | Band   | Insertion Loss                | Return Loss | Isolation | Power (CW) | Connector               | Size(L x W x H)       |
|------------------------|-----------------|----------|--|-------------------------------|-------------|-----------|------------|-------------------------|-----------------------|
| AP-CC-Triplexer2-03N   | 1710-2700MHz    | 3        | 1710-1880MHz<br>1920-2170MHz<br>2500-2700MHz | ≤0.8dB                        | ≥15dB       | ≥20dB     | 100W       | N-F                     | 170mm x 90mm x 34mm   |
| AP-CC3-1900M2620M-70NH | 1900-2620MHz    | 3        | 1900-1920MHz<br>2300-2400MHz<br>2570-2620MHz | ≤0.5dB                        | ≥18dB       | ≥70dB     | 100W       | Com: N-F<br>Input:SMA-F | 155mm x 90mm x 34mm   |
| AP-CC3-698M2690M-N25   | 698-2690MHz     | 3        | 698-862MHz<br>880-960MHz<br>1710-2690MHz     | ≤1.0dB                        | ≥15dB       | ≥25dB     | 100W       | N-F                     | 200mm x 135mm x 36mm  |
| AP-CC-Triplexer1-03N   | 703-2700MHz     | 3        | 703-960MHz<br>1710-2170MHz<br>2500-2700MHz   | ≤0.8dB                        | ≥15dB       | ≥20dB     | 100W       | N-F                     | 170mm x 90mm x 42mm   |
| AP-TRIPLEXER-813C      | 758-869MHz      | 3        | 758-776MHz<br>788-824MHz<br>851-869MHz       | ≤2.0 dB<br>≤1.0 dB<br>≤2.0 dB | ≥18 dB      | ≥80dB     | 50W        | SMA-F                   | 218mm x 195mm x 36 mm |
| AP-TRIPLEXER-811C      | 763-860MHz      | 3        | 763-775MHz<br>793-815MHz<br>851-860MHz       | ≤3.0dB                        | ≥14dB       | ≥85dB     | 10W        | SMA-F                   | 218mm x 195mm x 36mm  |
| AP-TRIPLEXER-811D      | 763-860MHz      | 3        | 763-775MHz<br>793-815MHz<br>851-860MHz       | ≤2.5dB                        | ≥15dB       | ≥125dB    | 15W        | SMA-F                   | 200mm x 135mm x 86mm  |
| AP-TRIPLEXER-812A      | 769-860MHz      | 3        | 769-775MHz<br>799-815MHz<br>851-860MHz       | ≤4.8dB<br>≤3.5dB<br>≤2.5dB    | ≥15dB       | ≥125dB    | 10W        | SMA-F                   | 200mm x 135mm x 86mm  |
| AP-TRIPLEXER-813B      | 769-869MHz      | 3        | 769-775MHz<br>799-824MHz<br>851-869MHz       | ≤4.8dB<br>≤3.6dB<br>≤2.7dB    | ≥15dB       | ≥125dB    | 10W        | SMA-F                   | 200mm x 135mm x 86mm  |
| AP-CC3-769M869M-3S62   | 769-869MHz      | 3        | 769-775MHz<br>799-824MHz<br>851-869MHz       | ≤2.0dB                        | ≥15dB       | ≥62dB     | 50W        | SMA-F                   | 157mm x 115mm x 36mm  |

| Model Number          | Frequency Range | Channels | Band   | Insertion Loss                       | Return Loss | Isolation                        | Power (CW) | Connector                           | Size(L x W x H)        |
|-----------------------|-----------------|----------|--|--------------------------------------|-------------|----------------------------------|------------|-------------------------------------|------------------------|
| AP-CC3-7901670-50N    | 790-1670MHz     | 3        | 790-960MHz<br>1220-1300MHz<br>1520-1670MHz                                 | ≤0.5dB                               | ≥15dB       | ≥50dB                            | 30W        | N-F                                 | 192mm x 108mm x 41mm   |
| AP-CC-Triplexer3-03N  | 790-2170MHz     | 3        | 790-960MHz<br>1710-1880MHz<br>1920-2170MHz                                 | ≤0.5dB                               | ≥15dB       | ≥20dB                            | 100W       | N-F                                 | 186mm x 90mm x 42mm    |
| AP-CC3-880M1980M-40S  | 8880-1980MHz    | 3        | 880-915MHz<br>1710-1785MHz<br>1920-1980MHz                                 | ≤1.0dB<br>≤1.0dB<br>≤0.9dB           | ≥15dB       | ≥40dB                            | 50W        | SMA-F                               | 160mm x100 mm x 39mm   |
| AP-CC3-925M2170M-30S  | 925-2170MHz     | 3        | 925-960MHz<br>1805-1880MHz<br>2110-2170MHz                                 | ≤1.0dB<br>≤0.9dB<br>≤0.9dB           | ≥15dB       | ≥30dB                            | 50W        | SMA-F                               | 160mm x100 mm x 39mm   |
| AP-CC4-720M2690M-35S  | 720-2690MHz     | 4        | 720-960MHz<br>1800-2170MHz<br>2300-2400MHz<br>2500-2615MHz<br>2625-2690MHz | ≤2.0dB                               | ≥15dB       | ≥35dB                            | 50W        | SMA-F                               | 155mm x 138mm x 36mm   |
| AP-CC4-729M2200M-55N  | 729-2200MHz     | 4        | 729-756MHz<br>859-894MHz<br>1930-1990MHz<br>2110-2200MHz                   | ≤0.8dB                               | ≥17dB       | ≥55dB                            | 200W       | Com: N-F<br>Input: SMA-F            | 260mm x 180mm x 40mm   |
| AP-CC4-777M1910M-55S  | 777-1780MHz     | 4        | 777-787MHz<br>814-849MHz<br>1710-1780MHz<br>1850-1910MHz                   | ≤1.0dB                               | ≥17dB       | ≥55dB                            | 50W        | SMA-F                               | 260mm x 180mm x 40mm   |
| AP-CC4-780M934M-50NS  | 780-934MHz      | 4        | 780-820MHz<br>885-934MHz   | ≤0.5dB<br>≤4.0dB                     | ≥19dB       | ≥50dB                            | 50W        | Port1; Port2:<br>N-F<br>Input:SMA-F | 170mm x 150mm x 46mm   |
| AP-CC4-824M1980M-45S  | 824-1980MHz     | 4        | 824-845MHz<br>880-915MHz<br>1710-1785MHz<br>1920-1980MHz                   | ≤2.0dB                               | ≥15dB       | ≥45dB                            | 1W         | SMA-F                               | 180mm x 103mm x 34mm   |
| AP-CC4-824M1990M-65BS | 824-1990MHz     | 4        | 824-849MHz<br>869-894MHz<br>1805-1910MHz<br>1930-1990MHz                   | ≤2.0dB<br>≤1.5dB<br>≤2.0dB<br>≤1.5dB | ≥15dB       | ≥65dB<br>≥20dB<br>≥65dB<br>≥20dB | 1W         | SMA-F                               | 155mm x 110mm x 25.5mm |
| AP-CC4-824M1990M-48DS | 824-1990MHz     | 4        | 824-849MHz<br>869-894MHz<br>1850-1910MHz<br>1930-1990MHz                   | ≤2.0dB<br>≤1.5dB<br>≤2.0dB<br>≤1.5dB | ≥15dB       | ≥48dB                            | 1W         | SMA-F                               | 155mm x 110mm x 25.5mm |

| Model Number             | Frequency Range | Channels | Band   | Insertion Loss                                 | Return Loss | Isolation                        | Power (CW) | Connector                         | Size(L x W x H)        |
|--------------------------|-----------------|----------|--|--|-------------|----------------------------------|------------|-----------------------------------|------------------------|
| AP-CC4-880M1880M-85S     | 880-1880MHz     | 4        | 880-915MHz<br>925-960MHz<br>1710-1785MHz<br>1805-1880MHz                 | ≤1.5dB   | ≥15dB       | ≥85dB                            | 20W        | SMA-F                             | 200mm x 90mm x 80mm    |
| AP-CC4-880M1880M-65AS    | 880-1880MHz     | 4        | 880-915MHz<br>925-960MHz<br>1710-1785MHz<br>1805-1880MHz                 | ≤2.0dB<br>≤1.5dB<br>≤2.0dB<br>≤1.5dB           | ≥15dB       | ≥65dB<br>≥20dB<br>≥65dB<br>≥20dB | 1W         | SMA-F                             | 155mm x 110mm x 25.5mm |
| AP-CC4-880M1880M-48CS    | 880-1880MHz     | 4        | 880-915MHz<br>925-960MHz<br>1710-1785MHz<br>1805-1880MHz                 | ≤2.0dB<br>≤1.5dB<br>≤2.0dB<br>≤1.5dB           | ≥15dB       | ≥48dB                            | 1W         | SMA-F                             | 155mm x 110mm x 25.5mm |
| AP-CC4-V BIG RX B40 HALF | 880-2400MHz     | 4        | 880-915MHz<br>1710-1785MHz<br>1920-1980MHz<br>2300-2400MHz               | ≤1.0dB   | ≥15dB       | ≥17.5dB                          | 20W        | SMA-F                             | 135mm x 100mm x 34mm   |
| AP-CC4-V BIG TX B40      | 925-2400MHz     | 4        | 925-960MHz<br>1805-1880MHz<br>2110-2170MHz<br>2300-2400MHz               | ≤1.0dB   | ≥15dB       | ≥35dB                            | 20W        | Com: N-F;<br>Input: SMA-F         | 150mm x 100mm x 34mm   |
| AP-CC5-430M3594M-60N     | 430-3594MHz     | 5        | 430-467MHz<br>703-862MHz<br>1525-1626MHz<br>2400-2495MHz<br>3410-3594MHz | ≤1.0dB   | ≥16dB       | ≥60dB                            | 120W       | Com:<br>DIN(7/16)-F<br>Input: N-F | 134mm x 175mm x 91mm   |
| AP-CC5-703M2570M-70S     | 703-2570MHz     | 5        | 703-748MHz<br>824-849MHz<br>1710-1770MHz<br>1850-1910MHz<br>2500-2570MHz | ≤2.0dB   | ≥18dB       | ≥70dB                            | 50W        | SMA-F                             | 129mm x 116mm x 65mm   |
| AP-CC5-703M2690M-60N     | 703-2690MHz     | 5        | 703-862MHz<br>880-960MHz<br>1710-1880MHz<br>1920-2170MHz<br>2500-2690MHz | ≤1.0dB   | ≥16dB       | ≥60dB                            | 120W       | Com:<br>DIN(7/16)-F<br>Input: N-F | 156mm x 190mm x 80mm   |
| AP-CC5-729M2360M-60NS    | 729-2360MHz     | 5        | 729-768MHz<br>859-894MHz<br>1930-1995MHz<br>2110-2180MHz<br>2350-2360MHz | ≤0.6dB<br>≤0.6dB<br>≤0.6dB<br>≤0.6dB<br>≤1.1dB | ≥18dB       | ≥60dB                            | 80W        | Com: N-F<br>Input: SMA-F          | 260mm x 182mm x 36mm   |

| Model Number                 | Frequency Range | Channels | Band   | Insertion Loss                                 | Return Loss | Isolation                                 | Power (CW) | Connector                      | Size(L x W x H)      |
|------------------------------|-----------------|----------|--|--|-------------|---|------------|--------------------------------|----------------------|
| AP-CC5-758M2170M-TX75NS      | 758-2170MHz     | 5        | 758-803MHz<br>869-880MHz<br>925-960MHz<br>1805-1880MHz<br>2110-2170MHz                 | ≤1.5dB<br>≤1.5dB<br>≤1.5dB<br>≤1.5dB<br>≤1.0dB | ≥18dB       | ≥70dB<br>≥75dB<br>≥75dB<br>≥75dB<br>≥60dB | 60W        | TX Out: N-F<br>Other:<br>SMA-F | 129mm x 116mm x 68mm |
| AP-CC6-758M2690M-NSDL        | 758-2690MHz     | 5        | 758-803MHz<br>869-894MHz<br>925-960MHz<br>1805-1880MHz<br>2110-2170MHz<br>2620-2690MHz | ≤1.5dB   | ≥18dB       | ≥50dB                                     | 80W        | Com: N-F<br>Input: SMA-F       | 260mm x 185mm x 36mm |
| AP-CC5-758M2690M-75NS5       | 758-2690MHz     | 5        | 758-803MHz<br>925-960MHz<br>1805-1880MHz<br>2110-2170MHz<br>2620-2690MHz               | ≤1.5dB<br>≤1.5dB<br>≤1.5dB<br>≤1.0dB<br>≤1.4dB | ≥18dB       | ≥75dB<br>≥75dB<br>≥75dB<br>≥60dB<br>≥70dB | 50W        | SMA-F                          | 129mm x 116mm x 74mm |
| AP-CC5-758M2690M-70NSDL      | 758-2690MHz     | 5        | 758-803MHz<br>869-894MHz<br>1930-1990MHz<br>2110-2170MHz<br>2620-2690MHz               | ≤1.3dB<br>≤1.2dB<br>≤1.3dB<br>≤1.2dB<br>≤1.2dB | ≥18dB       | ≥65dB                                     | 60W        | Com: N-F;<br>Input: SMA-F      | 260mm x 182mm x 36mm |
| AP-CC5-758M2690M-80S         | 758-2690MHz     | 5        | 758-821<br>925-960<br>1805-1880<br>2110-2170<br>2620-2690                              | ≤1.5dB<br>≤1.5dB<br>≤1.5dB<br>≤1.0dB<br>≤1.0dB | ≥18dB       | ≥80dB                                     | 20W        | COM: TNC-F<br>Other:<br>SMA-F  | 210mm x 184mm x 39mm |
| AP-CC5-758M2690M-75NS2P      | 758-2690MHz     | 5        | 758-803MHz<br>869-894MHz<br>1930-1990MHz<br>2110-2170MHz<br>2620-2690MHz               | ≤1.5dB<br>≤1.5dB<br>≤1.5dB<br>≤1.0dB<br>≤1.4dB | ≥18dB       | ≥75dB<br>≥75dB<br>≥75dB<br>≥60dB<br>≥70dB | 60W        | COM: N-F<br>Input: SMA-F       | 129mm x 116mm x 74mm |
| AP-CC5-758M2690M-70NSDL<br>2 | 758-2690MHz     | 5        | 758-803MHz<br>869-894MHz<br>1930-1990MHz<br>2110-2200MHz<br>2620-2690MHz               | ≤1.3dB<br>≤1.2dB<br>≤1.6dB<br>≤1.2dB<br>≤1.2dB | ≥18dB       | ≥70dB                                     | 60W        | Com: N-F<br>Input: SMA-F       | 260mm x 182mm x 36mm |

| Model Number                 | Frequency Range | Channels | Band   | Insertion Loss                                   | Return Loss                      | Isolation                                 | Power (CW) | Connector                 | Size(L x W x H)        |
|------------------------------|-----------------|----------|--|--|----------------------------------|---|------------|---------------------------|------------------------|
| AP-CC5-758M2690M-DL65        | 758-2690MHz     | 5        | 758-821MHz<br>925-960MHz<br>1805-1880MHz<br>2110-2200MHz<br>2620-2690MHz | ≤1.5dB   | ≥17dB<br>≥18dB<br>≥18dB<br>≥18dB | ≥65dB                                     | 80W        | Com: N-F<br>Input: SMA-F  | 260mm x 181.7mm x 36mm |
| AP-CC5-758M2690M-70NSDL<br>4 | 758-2690MHz     | 5        | 758-803MHz<br>851-894MHz<br>1930-1990MHz<br>2110-2190MHz<br>2620-2690MHz | ≤1.3dB<br>≤1.2dB<br>≤1.3dB<br>≤1.2dB<br>≤1.9dB   | ≥18dB                            | ≥70dB                                     | 60W        | Com: N-F<br>Input: SMA-F  | 260mm x 182mm x 36mm   |
| AP-CC5-758M2690M-35S         | 758-2690MHz     | 5        | 758-803MHz<br>869-894MHz<br>1930-1990MHz<br>2100-2170MHz<br>2570-2690MHz | ≤1.5dB<br>≤1.5dB<br>≤1.5dB<br>≤1.5dB<br>≤3.3dB   | ≥15dB                            | ≥35dB                                     | 2W         | SMA-F                     | 225mm x 172mm x 34mm   |
| AP-CC5-758M2690M-80S2        | 758-2690MHz     | 5        | 758-821MHz<br>925-960MHz<br>1805-1880MHz<br>2110-2170MHz<br>2300-2690MHz | ≤1.5dB<br>≤1.5dB<br>≤1.5dB<br>≤1.0dB<br>≤1.0dB   | ≥18dB                            | ≥80dB                                     | 20W        | SMA-F                     | 210mm x 184mm x 39mm   |
| AP-CC5-758M2690M-75NS2       | 758-5690MHz     | 5        | 758-803MHz<br>869-894MHz<br>1930-1990MHz<br>2110-2170MHz<br>2620-2690MHz | ≤1.5dB<br>≤1.5dB<br>≤1.5dB<br>≤1.0dB<br>≤1.4dB   | ≥18dB                            | ≥75dB<br>≥75dB<br>≥75dB<br>≥60dB<br>≥70dB | 50W        | SMA-F                     | 129mm x 116mm x 74mm   |
| AP-CC5-791M2690M-75NS1       | 791-2690MHz     | 5        | 791-821MHz<br>925-960MHz<br>1805-1880MHz<br>2110-2170MHz<br>2620-2690MHz | ≤1.5dB<br>≤1.5dB<br>≤1.5dB<br>≤1.0dB<br>≤1.4dB   | ≥18dB                            | ≥75dB<br>≥75dB<br>≥75dB<br>≥60dB<br>≥70dB | 50W        | SMA-F                     | 129mm x 116mm x 74mm   |
| AP-CC5-791M2690M-40NS        | 791-2690MHz     | 5        | 791-821MHz<br>925-960MHz<br>1805-1880MHz<br>2110-2170MHz<br>2620-2690MHz | ≤0.75dB<br>≤0.75dB<br>≤0.5dB<br>≤0.5dB<br>≤0.5dB | ≥17dB                            | ≥40dB                                     | 250W       | Com: N-F;<br>Input: SMA-F | 160mm x 198mm x 38mm   |
| AP-CC5-791M2690M-75NS1P      | 791-2690MHz     | 5        | 791-821MHz<br>925-960MHz<br>1805-1880MHz<br>2110-2170MHz<br>2620-2690MHz | ≤1.5dB<br>≤1.5dB<br>≤1.5dB<br>≤1.0dB<br>≤1.4dB   | ≥18dB                            | ≥75dB<br>≥75dB<br>≥75dB<br>≥60dB<br>≥70dB | 60W        | COM: N-F<br>Input: SMA-F  | 129mm x 116mm x 74mm   |

| Model Number            | Frequency Range | Channels | Band   | Insertion Loss                                   | Return Loss | Isolation                                 | Power (CW) | Connector                | Size(L x W x H)      |
|-------------------------|-----------------|----------|--|--|-------------|---|------------|--------------------------|----------------------|
| AP-CC5-791M2690M-40NS1  | 791-2690MHz     | 5        | 791-821MHz<br>925-960MHz<br>1805-1880MHz<br>2110-2170MHz<br>2550-2690MHz | ≤0.75dB<br>≤0.75dB<br>≤0.5dB<br>≤0.5dB<br>≤0.5dB | ≥17dB       | ≥40dB                                     | 250W       | Com: N-F<br>Input: SMA-F | 160mm x 198mm x 38mm |
| AP-CC5-791M2690M-25S    | 791-2690MHz     | 5        | 791-821MHz<br>925-960MHz<br>1805-1880MHz<br>2110-2170MHz<br>2620-2690MHz | ≤1.0dB   | ≥18dB       | ≥25dB                                     | 50W        | SMA-F                    | 115mm x 105mm x 65mm |
| AP-CC5-703M1980M-RX70NS | 824-1980MHz     | 5        | 824-835MHz<br>880-915MHz<br>703-748MHz<br>1710-1785MHz<br>1920-1980MHz   | ≤1.5dB<br>≤1.5dB<br>≤1.5dB<br>≤1.5dB<br>≤1.0dB   | ≥18dB       | ≥70dB                                     | 50W        | SMA-F                    | 129mm x 116mm x 68mm |
| AP-CC5-824M2400M-45NS4  | 824-2400MHz     | 5        | 824-849MHz<br>880-915MHz<br>1710-1785MHz<br>1920-1980MHz<br>2300-2400MHz | ≤1.5dB<br>≤1.5dB<br>≤1.5dB<br>≤1.0dB<br>≤1.4dB   | ≥18dB       | ≥45dB                                     | 1W         | SMA-F                    | 116mm x 116mm x 74mm |
| AP-CC5-824M2570M-90N    | 824-2570MHz     | 5        | 824-834MHz<br>880-915MHz<br>1710-1785MHz<br>1900-1960MHz<br>2100-2570MHz | ≤1.4dB<br>≤1.0dB<br>≤0.7dB<br>≤0.7dB<br>≤0.7dB   | ≥15dB       | ≥90dB                                     | 3W         | N-F                      | 200mm x 140mm x 36mm |
| AP-CC5-824M2690M-50N    | 824-2690MHz     | 5        | 824-875MHz<br>880-960MHz<br>1710-1880MHz<br>1920-2170MHz<br>2500-2690MHz | ≤2.0dB<br>≤1.5dB<br>≤1.1dB<br>≤1.1dB<br>≤1.1dB   | ≥15dB       | ≥20dB<br>≥20dB<br>≥50dB<br>≥50dB<br>≥50dB | 400W       | N-F                      | 190mm x 156mm x 80mm |
| AP-CC5-830M2570M-30S    | 830-2570MHz     | 5        | 830-867MHz<br>875-915MHz<br>1705-1785MHz<br>1915-1985MHz<br>2495-2570MHz | ≤1.0dB<br>≤1.0dB<br>≤0.8dB<br>≤0.8dB<br>≤0.8dB   | ≥17dB       | ≥30dB                                     | 1W         | SMA-F                    | 215mm x 140mm x 34mm |
| AP-CC5-832M2570M-45S    | 832-2570MHz     | 5        | 832-862MHz<br>880-915MHz<br>1710-1785MHz<br>1920-1980MHz<br>2500-2570MHz | ≤2.0dB   | ≥18dB       | ≥45dB                                     | 50W        | SMA-F                    | 120mm x 116mm x 70mm |



| Model Number           | Frequency Range | Channels | Band   | Insertion Loss   | Return Loss | Isolation                                 | Power (CW) | Connector    | Size(L x W x H)        |
|------------------------|-----------------|----------|--|--|-------------|---|------------|--------------|------------------------|
| AP-CC5-832M2570M-70S   | 832-2570MHz     | 5        | 832-862MHz<br>880-915MHz<br>1710-1785MHz<br>1920-1980MHz<br>2500-2570MHz                 | ≤2.0dB   | ≥18dB       | ≥70dB                                     | 50W        | SMA-F        | 129mm x 116mm x 65mm   |
| AP-CC5-832M2570M-45S1  | 832-2570MHz     | 5        | 832-862MHz<br>880-915MHz<br>1710-1785MHz<br>1920-1980MHz<br>2500-2570MHz                 | ≤1.0dB   | ≥18dB       | ≥18dB                                     | 50W        | SMA-F        | 110mm x 110mm x 65mm   |
| AP-CC5-832M2570M-45S2  | 832-2570MHz     | 5        | 832-862MHz<br>880-915MHz<br>1710-1785MHz<br>1920-1980MHz<br>2500-2570MHz                 | ≤1.0dB   | ≥18dB       | ≥45dB                                     | 50W        | SMA-F        | 110mm x 110mm x 65mm   |
| AP-CC5-869M2400M-75NS3 | 869-2400MHz     | 5        | 859-894MHz<br>925-960MHz<br>1805-1880MHz<br>2110-2170MHz<br>2300-2400MHz                 | ≤1.5dB<br>≤1.5dB<br>≤1.5dB<br>≤1.0dB<br>≤1.4dB           | ≥18dB       | ≥75dB<br>≥75dB<br>≥75dB<br>≥60dB<br>≥60dB | 50W        | SMA-F        | 129mm x 116mm x 74mm   |
| AP-CC6-703M2615M-35S   | 703-2615MHz     | 6        | 703-748MHz<br>824-849MHz<br>1710-1770MHz<br>1850-1910MHz<br>2500-2565MHz<br>2575-2615MHz | ≤2.0dB   | ≥15dB       | ≥35dB                                     | 50W        | SMA-F        | 185 mm x165 mm x39 mm  |
| AP-CC6-BP4-35S         | 703-2615MHz     | 6        | 703-748MHz<br>824-849MHz<br>1710-1770MHz<br>1805-1910MHz<br>2500-2565MHz<br>2575-2615MHz | ≤2.0dB   | ≥15dB       | ≥35dB                                     | 50W        | SMA-F        | 215mm x 175mm x 34mm   |
| AP-CC6-758M2690M-DL55  | 758-2690MHz     | 6        | 758-803MHz<br>869-890MHz<br>925-960MHz<br>1805-1880MHz<br>2110-2170MHz<br>2620-2690MHz   | ≤1.5dB<br>≤1.7dB<br>≤1.5dB<br>≤1.5dB<br>≤1.5dB<br>≤1.5dB | ≥18dB       | ≥50dB                                     | 80W        | N-F<br>SMA-F | 260mm x 181.7mm x 36mm |

| Model Number            | Frequency Range | Channels | Band   | Insertion Loss   | Return Loss | Isolation | Power (CW) | Connector   | Size(L x W x H)      |
|-------------------------|-----------------|----------|--|--|-------------|-----------|------------|---|----------------------|
| AP-CC6-758M2690M-35NS   | 758-2690MHz     | 6        | 758-803MHz<br>869-894MHz<br>1930-1990MHz<br>2110-2170MHz<br>2570-2615MHz<br>2625-2690MHz                 | ≤2.0dB   | ≥15dB       | ≥35dB     | 16W        | Hi_IN/<br>TDD_IN/<br>MID_IN/<br>LOW_IN:<br>SMA-F<br>ANT: N-F  | 192mm x 125mm x 36mm |
| AP-CC6-758M2690M-35SDL  | 758-2690MHz     | 6        | 758-821MHz<br>925-960MHz<br>1805-1880MHz<br>2110-2170MHz<br>2300-2400MHz<br>2570-2690MHz                 | ≤1.5dB<br>≤1.5dB<br>≤1.5dB<br>≤1.5dB<br>≤3.0dB                     | ≥15dB       | ≥35dB     | 2W         | SMA-F   | 225mm x 172mm x 34mm |
| AP-CC6-758M2690M-35NS1  | 758-2690MHz     | 6        | 758-803MHz<br>869-894MHz<br>1930-1990MHz<br>2110-2200MHz<br>2570-2615MHz<br>2625-2690MHz                 | ≤2.0dB   | ≥15dB       | ≥35dB     | 100W       | Hi_IN/<br>TDD_IN/<br>MID_IN/<br>LOW_IN:<br>SMA-F<br>ANT : N-F | 180mm x 135mm x 36mm |
| AP-CC7-703M2620M-35S1   | 703-2620MHz     | 7        | 703-748<br>832-915<br>1710-1785<br>1920-1980<br>2300-2400<br>2500-570<br>2575-2620                       | ≤2.0dB<br>≤2.0dB<br>≤2.0dB<br>≤2.0dB<br>≤2.0dB<br>≤4.0dB<br>≤3.0dB | ≥15dB       | ≥20dB     | 50W        | SMA-F   | 235mm x 175mm x 34mm |
| AP-CC7-703M2690M-35S3UL | 703-2690MHz     | 7        | 703-748MHz<br>814-845MHz<br>899-915.1MHz<br>1710-1785MHz<br>1920-1980MHz<br>2300-2400MHz<br>2496-2690MHz | ≤2.0dB   | ≥15dB       | ≥20dB     | 50W        | SMA-F   | 235mm x 175mm x 34mm |
| AP-CC7-758M2690M-35NSDL | 758-2690MHz     | 7        | 758-821MHz<br>925-960MHz<br>1805-1880MHz<br>2110-2170MHz<br>2300-2400MHz<br>2570-2690MHz<br>2620-2690MHz | ≤1.5dB<br>≤1.5dB<br>≤1.5dB<br>≤1.5dB<br>≤1.5dB<br>≤3.0dB<br>≤3.0dB | ≥15dB       | ≥35dB     | 50W        | Com: N-F<br>Input: SMA-F                                      | 212mm x 150mm x 38mm |

| Model Number            | Frequency Range | Channels | Band   | Insertion Loss   | Return Loss | Isolation | Power (CW) | Connector | Size(L x W x H)      |
|-------------------------|-----------------|----------|--|--|-------------|-----------|------------|-----------|----------------------|
| AP-CC7-758M2690-50N     | 758-2690MHz     | 7        | 758-803MHz<br>859-894MHz<br>915-960MHz<br>1805-1880MHz<br>2110-2170MHz<br>2300-2400MHz<br>2620-2690MHz                             | ≤0.8dB   | ≥15dB       | ≥50dB     | 35W        | N-F       | 278mm x 175mm x 39mm |
| AP-CC7-758M2690M-35SDL2 | 758-2690MHz     | 7        | 758-803MHz<br>860-894MHz<br>945-960MHz<br>1805-1880MHz<br>2110-2170MHz<br>2300-2400MHz<br>2575-2690MHz                             | ≤1.5dB<br>≤1.5dB<br>≤1.5dB<br>≤1.5dB<br>≤1.5dB<br>≤1.5dB<br>≤3.0dB           | ≥15dB       | ≥35dB     | 20W        | SMA-F     | 225mm x 172mm x 34mm |
| AP-CC7-758M2690M-35SDL3 | 758-2690MHz     | 7        | 758-803MHz<br>860-889MHz<br>935-960MHz<br>1805-1880MHz<br>2110-2170MHz<br>2300-2400MHz<br>2496-2690MHz                             | ≤1.5dB   | ≥15dB       | ≥35dB     | 20W        | SMA-F     | 245mm x 172mm x 34mm |
| AP-CC8-703M2615M-20S2UL | 703-2615MHz     | 8        | 703-748MHz<br>814-849MHz<br>904-915.1MHz<br>1710-1785MHz<br>1920-1980MHz<br>2300-2400MHz<br>2500-2562MHz<br>2575-2615MHz           | ≤2.0dB<br>≤2.0dB<br>≤2.0dB<br>≤2.0dB<br>≤2.0dB<br>≤4.0dB<br>≤2.0dB<br>≤4.0dB | ≥15dB       | ≥20dB     | 50W        | SMA-F     | 235mm x 175mm x 34mm |
| AP-CC9-BP3 LATAM        | 703-2170MHz     | 9        | 703-748MHz<br>758-803MHz<br>824-849MHz<br>869-894MHz<br>869-894MHz<br>1710-1770MHz<br>1850-1910MHz<br>1930-1990MHz<br>2110-2170MHz | ≤2.0dB   | ≥15dB       | ≥35dB     | 50W        | SMA-F     | 230mm x 150mm x 38mm |

| Model Number                 | Frequency Range | Channels | Band   | Insertion Loss   | Return Loss | Isolation  | Power (CW) | Connector                      | Size(L x W x H)          |
|------------------------------|-----------------|----------|--|--|-------------|--|------------|--------------------------------|--------------------------|
| AP-CC9-BP-TRX                | 791-2170MHz     | 9        | 791-821MHz<br>832-862MHz<br>880-915MHz<br>925-960MHz<br>925-960MHz<br>1710-1785MHz<br>1805-1880MHz<br>1920-1980MHz<br>2110-2170MHz               | ≤2.0dB   | ≥12dB       | ≥30dB  | 50W        | SMA-F                          | 225mm x 150mm x 39mm     |
| AP-CC10-703M2170M-75NS3<br>P | 703-2170MHz     | 10       | 703-747MHz<br>758-803MHz<br>824-835MHz<br>869-880MHz<br>880-915MHz<br>925-960MHz<br>1710-1785MHz<br>1805-1880MHz<br>1920-1980MHz<br>2110-2170MHz | ≤1.5dB<br>≤1.5dB<br>≤1.5dB<br>≤1.5dB<br>≤1.5dB<br>≤1.5dB<br>≤1.5dB<br>≤1.5dB<br>≤1.0dB<br>≤1.0dB | ≥18dB       | ≥65dB  | 50W        | TX Out: N-F<br>Other:<br>SMA-F | 129mm x 79mm x 240mm     |
| AP-BC-350M2700M-3.1dBx       | 350-2700MHz     |          | 350-380MHz<br>380-2700MHz  | -  | -           | 23dB   | 200W       | N-F<br>4310-F                  | -                        |
| AP-BC-350M3800M-3.1dBx       | 350-3800MHz     |          | 350-3800MHz  | -  | -           | 23dB<br>(30dB<br>needs to<br>be<br>customize<br>d) | 200W       | N-F<br>4310-F                  | 231.8mm x 211.8mm x 53mm |
| AP-BC-575M6000M-3.1dBx       | 575-6000MHz     |          | 575-6000MHz  | -  | -           | 20dB   | 200W       | N-F<br>4310-F                  | 165mm x 43mm x 36mm      |

## RF Isolator



- Frequency: 10MHz-40GHz
- Features: Low insertion loss, high frequency, high isolation, high power, compact size, vibration & impact resistance, custom design available.
- Types: Coaxial, Drop-in, Surface Mount, Microstrip, Waveguide

| Model Number           | Frequency Range | Insertion Loss | Isolation | VSWR   | Forward Power | Reverse Power | Size(L x W x H)  |
|------------------------|-----------------|----------------|-----------|--------|---------------|---------------|------------------|
| AP-CI-118M156M-100W    | 118-156MHz      | 0.6dB          | 20dB      | 1.25:1 | 100W          | 100W          | 75 x 60 x 28 mm  |
| AP-CI-135M175M-20NF    | 135-175MHz      | 0.5dB          | 20dB      | 1.25:1 | 150W          | 100W          | 60*60*25mm       |
| AP-CI1-146M174M-50N    | 146-174MHz      | 1.5dB          | 60dB      | 1.25:1 | 150W          | 50W           | 170 x 80 x 43mm  |
| AP-TI-162-12S          | 150 -174MHz     | 0.6dB          | 20dB      | 1.2:1  | 50W           | 20W           | 60 x 60 x 25.5mm |
| AP-CT-225M400M-18NF    | 225-400MHz      | 0.8 dB         | 18dB      | 1.3:1  | 160W          | 160W          | 60 x 60 x 28mm   |
| AP-CI1-380420-60N      | 380-420MHz      | 1.0 dB         | 60dB      | 1.25:1 | 150W          | 100W          | 160 x 80 x 40mm  |
| AP-CT-400M470M-NF200W  | 400-470MHz      | 0.4dB          | 20dB      | 1.25:1 | 160W          | -             | 38 x 35 x 15mm   |
| AP-CI-460-20-100M      | 450-470MHz      | 0.4dB          | 23 dB     | 1.2:1  | 300W          | 30W           | 35 x 38 x 11 mm  |
| AP-TI-WG3538X-1        | 763-775MHz      | 0.3dB          | 25dB      | 1.2:1  | 100W          | 20W           | 38 x 35 x 11mm   |
| AP-TI-WG3538X-2        | 793-805MHz      | 0.3dB          | 25dB      | 1.2:1  | 100W          | 20W           | 38 x 35 x 11mm   |
| AP-TI-WG3538X-3        | 806-815MHz      | 0.3dB          | 25dB      | 1.2:1  | 100W          | 20W           | 38 x 35 x 11mm   |
| AP-TI-WG3538X-4        | 851-860MHz      | 0.3dB          | 25dB      | 1.2:1  | 100W          | 20W           | 38 x 35 x 11mm   |
| AP-CI-2000M4000M-18PIN | 2000-4000MHz    | 0.5dB          | 18dB      | 1.3:1  | 30W           | 10W           | 34*32*21mm       |
| AP-CI-4G8G-18PIN       | 4000-8000MHz    | 0.5dB          | 18dB      | 1.3:1  | 30W           | 10W           | 23*21*15mm       |
| AP-CI-6G18G-9.5PIN     | 6000-18000MHz   | 1.5dB          | 9.5dB     | 2:01   | 30W           | 10W           | 27*16*21mm       |
| AP-CI-6.0G12G-15SF     | 6000-12000MHz   | 0.7dB          | 15dB      | 1.45:1 | 30W           | 10W           | 19*13*13mm       |
| AP-MC-9G10G-18M2       | 9000-10000Mhz   | 0.4dB          | 18dB      | -      | 10W           | -             | 7 x 7 x 2.3mm    |
| AP-CI-10G11.2G-20SF    | 10000-11200MHz  | 0.4dB          | 20dB      | 1.25:1 | 30W           | 10W           | 19*13*13mm       |
| AP-TI-16G17G-23S       | 16000-17000MHz  | 0.3 dB         | 23dB      | 1.2:1  | 60W           | 10W           | 20 x 12 x 13mm   |

## Drop-in Isolators

| Band | Frequency Range | Insertion Loss | Isolation | VSWR   | Forward Power | Reverse Power | Working Temperature | Size(L x W x H) |
|------|-----------------|----------------|-----------|--------|---------------|---------------|---------------------|-----------------|
| UHF  | 350-370MHz      | 0.35dB         | 20dB      | 1.25:1 | 300W          | 30W           | -20°C ~ +65°C       | 35*38*11mm      |
| UHF  | 380-460MHz      | 0.5dB          | 18dB      | 1.3:1  | 300W          | 30W           | -20°C ~ +65°C       | 35*38*11mm      |
| UHF  | 400-470MHz      | 0.4dB          | 20dB      | 1.25:1 | 300W          | 30W           | -30°C ~ +70°C       | 35*38*11mm      |
| UHF  | 450-520MHz      | 0.4dB          | 20dB      | 1.25:1 | 300W          | 30W           | -20°C ~ +65°C       | 35*38*11mm      |
| UHF  | 600-800MHz      | 0.5dB          | 19dB      | 1.25:1 | 300W          | 30W           | -20°C ~ +65°C       | 35*38*11mm      |
| UHF  | 700-900MHz      | 0.4dB          | 20dB      | 1.25:1 | 300W          | 30W           | -20°C ~ +65°C       | 35*38*11mm      |
| UHF  | 350-370MHz      | 0.35dB         | 20dB      | 1.25:1 | 300W          | 100W          | -20°C ~ +65°C       | 35*46*11mm      |
| UHF  | 380-460MHz      | 0.5dB          | 18dB      | 1.3:1  | 300W          | 100W          | -20°C ~ +65°C       | 35*46*11mm      |
| UHF  | 400-470MHz      | 0.4dB          | 20dB      | 1.25:1 | 300W          | 100W          | -30°C ~ +70°C       | 35*46*11mm      |
| UHF  | 450-520MHz      | 0.4dB          | 20dB      | 1.25:1 | 300W          | 100W          | -20°C ~ +65°C       | 35*46*11mm      |
| UHF  | 600-800MHz      | 0.5dB          | 19dB      | 1.25:1 | 300W          | 100W          | -20°C ~ +65°C       | 35*46*11mm      |
| UHF  | 700-900MHz      | 0.4dB          | 20dB      | 1.25:1 | 300W          | 100W          | -20°C ~ +65°C       | 35*46*11mm      |
| L    | 1.0-1.1GHz      | 0.3dB          | 20dB      | 1.2:1  | 200W          | 30W           | -40°C ~ +85°C       | 25.4*25.4*10mm  |
| L    | 1.2-1.4GHz      | 0.3dB          | 20dB      | 1.2:1  | 200W          | 30W           | -40°C ~ +85°C       | 25.4*25.4*10mm  |
| L    | 1.4-1.6GHz      | 0.3dB          | 20dB      | 1.2:1  | 200W          | 30W           | -40°C ~ +85°C       | 25.4*25.4*10mm  |
| L    | 1.6-1.8GHz      | 0.3dB          | 20dB      | 1.2:1  | 200W          | 30W           | -40°C ~ +85°C       | 25.4*25.4*10mm  |
| L    | 1.8-2.0GHz      | 0.3dB          | 20dB      | 1.2:1  | 200W          | 30W           | -40°C ~ +85°C       | 25.4*25.4*10mm  |
| L    | 1.0-1.1GHz      | 0.3dB          | 20dB      | 1.2:1  | 200W          | 100W          | -40°C ~ +85°C       | 25.4*31.7*10mm  |
| L    | 1.2-1.4GHz      | 0.3dB          | 20dB      | 1.2:1  | 200W          | 100W          | -40°C ~ +85°C       | 25.4*31.7*10mm  |
| L    | 1.4-1.6GHz      | 0.3dB          | 20dB      | 1.2:1  | 200W          | 100W          | -40°C ~ +85°C       | 25.4*31.7*10mm  |
| L    | 1.6-1.8GHz      | 0.3dB          | 20dB      | 1.2:1  | 200W          | 100W          | -40°C ~ +85°C       | 25.4*31.7*10mm  |
| L    | 1.8-2.0GHz      | 0.3dB          | 20dB      | 1.2:1  | 200W          | 100W          | -40°C ~ +85°C       | 25.4*31.7*10mm  |
| S    | 2.0-2.2GHz      | 0.3dB          | 20dB      | 1.25:1 | 200W          | 30W           | -40°C ~ +85°C       | 25.4*25.4*10mm  |
| S    | 2.2-2.4GHz      | 0.3dB          | 20dB      | 1.25:1 | 200W          | 30W           | -40°C ~ +85°C       | 25.4*25.4*10mm  |
| S    | 2.7-3.1GHz      | 0.3dB          | 20dB      | 1.25:1 | 200W          | 30W           | -40°C ~ +85°C       | 25.4*25.4*10mm  |
| S    | 3.0-3.6GHz      | 0.3dB          | 20dB      | 1.25:1 | 200W          | 30W           | -40°C ~ +85°C       | 25.4*25.4*10mm  |
| S    | 2.0-2.2GHz      | 0.3dB          | 20dB      | 1.25:1 | 200W          | 100W          | -40°C ~ +85°C       | 25.4*31.7*10mm  |
| S    | 2.2-2.4GHz      | 0.3dB          | 20dB      | 1.25:1 | 200W          | 100W          | -40°C ~ +85°C       | 25.4*31.7*10mm  |
| S    | 2.7-3.1GHz      | 0.3dB          | 20dB      | 1.25:1 | 200W          | 100W          | -40°C ~ +85°C       | 25.4*31.7*10mm  |
| S    | 3.0-3.6GHz      | 0.3dB          | 20dB      | 1.25:1 | 200W          | 100W          | -40°C ~ +85°C       | 25.4*31.7*10mm  |
| C    | 4.4-5.0GHz      | 0.4dB          | 20dB      | 1.25:1 | 60W           | 20W           | -40°C ~ +85°C       | 12.7*12.7*8mm   |
| C    | 5.0-6.0GHz      | 0.4dB          | 18dB      | 1.25:1 | 60W           | 20W           | -40°C ~ +85°C       | 12.7*12.7*8mm   |
| C    | 6.5-7.0GHz      | 0.4dB          | 20dB      | 1.25:1 | 60W           | 20W           | -40°C ~ +85°C       | 12.7*12.7*8mm   |
| C    | 7.0-8.0GHz      | 0.4dB          | 20dB      | 1.25:1 | 60W           | 20W           | -40°C ~ +85°C       | 12.7*12.7*8mm   |
| C    | 4.0-8.0GHz      | 0.7dB          | 16dB      | 1.5:1  | 100W          | 75W           | -40°C ~ +85°C       | 16*23*6.4mm     |
| C    | 3.8-8.0GHz      | 0.9dB          | 14dB      | 1.7:1  | 100W          | 75W           | -40°C ~ +85°C       | 16*23*6.4mm     |

| Band | Frequency Range | Insertion Loss | Isolation | VSWR   | Forward Power | Reverse Power | Working Temperature | Size(L x W x H) |
|------|-----------------|----------------|-----------|--------|---------------|---------------|---------------------|-----------------|
| C    | 4.4-5.0GHz      | 0.4dB          | 20dB      | 1.25:1 | 75W           | 100W          | -40°C ~ +85°C       | 12.7*19.1*8mm   |
| C    | 5.0-6.0GHz      | 0.4dB          | 18dB      | 1.25:1 | 75W           | 100W          | -40°C ~ +85°C       | 12.7*19.1*8mm   |
| C    | 6.5-7.0GHz      | 0.4dB          | 20dB      | 1.25:1 | 75W           | 100W          | -40°C ~ +85°C       | 12.7*19.1*8mm   |
| C    | 7.0-8.0GHz      | 0.4dB          | 20dB      | 1.25:1 | 75W           | 100W          | -40°C ~ +85°C       | 12.7*19.1*8mm   |
| X    | 8.0-9.0GHz      | 0.35dB         | 20dB      | 1.25:1 | 30W           | 10W           | -40°C ~ +85°C       | 9*10*5.1mm      |
| X    | 9.0-10.0GHz     | 0.35dB         | 20dB      | 1.25:1 | 30W           | 10W           | -40°C ~ +85°C       | 9*10*5.1mm      |
| X    | 10.0-11.0GHz    | 0.35dB         | 20dB      | 1.25:1 | 30W           | 10W           | -40°C ~ +85°C       | 9*10*5.1mm      |
| X    | 11.0-12.0GHz    | 0.35dB         | 20dB      | 1.25:1 | 30W           | 10W           | -40°C ~ +85°C       | 9*10*5.1mm      |
| X    | 8.0-12.0GHz     | 0.5dB          | 18dB      | 1.3:1  | 30W           | 10W           | -40°C ~ +85°C       | 9*10*5.1mm      |
| X    | 8.0-9.0GHz      | 0.35dB         | 20dB      | 1.25:1 | 30W           | 10W           | -40°C ~ +85°C       | 9*14*5.1mm      |
| X    | 9.0-10.0GHz     | 0.35dB         | 20dB      | 1.25:1 | 30W           | 10W           | -40°C ~ +85°C       | 9*14*5.1mm      |
| X    | 10.0-11.0GHz    | 0.35dB         | 20dB      | 1.25:1 | 30W           | 10W           | -40°C ~ +85°C       | 9*14*5.1mm      |
| X    | 11.0-12.0GHz    | 0.35dB         | 20dB      | 1.25:1 | 30W           | 10W           | -40°C ~ +85°C       | 9*14*5.1mm      |
| KU   | 13.0-15.0GHz    | 0.5dB          | 18dB      | 1.25:1 | 30W           | 10W           | -40°C ~ +85°C       | 9*10*5.1mm      |
| KU   | 14.0-16.0GHz    | 0.5dB          | 18dB      | 1.25:1 | 30W           | 10W           | -40°C ~ +85°C       | 9*10*5.1mm      |
| KU   | 16.0-18.0GHz    | 0.5dB          | 18dB      | 1.25:1 | 30W           | 10W           | -40°C ~ +85°C       | 9*10*5.1mm      |
| KU   | 13.0-15.0GHz    | 0.5dB          | 18dB      | 1.25:1 | 30W           | 10W           | -40°C ~ +85°C       | 9*14*5.1mm      |
| KU   | 14.0-16.0GHz    | 0.5dB          | 18dB      | 1.25:1 | 30W           | 10W           | -40°C ~ +85°C       | 9*14*5.1mm      |
| KU   | 16.0-18.0GHz    | 0.5dB          | 18dB      | 1.25:1 | 30W           | 10W           | -40°C ~ +85°C       | 9*14*5.1mm      |
| K    | 18.0-22.0GHz    | 0.6dB          | 18dB      | 1.3:1  | 30W           | 5W            | -40°C ~ +85°C       | 13* 18*13.8mm   |
| K    | 21.0-23.0GHz    | 0.5dB          | 20dB      | 1.25:1 | 30W           | 5W            | -40°C ~ +85°C       | 13* 18*13.8mm   |
| K    | 23.0-25.0GHz    | 0.5dB          | 20dB      | 1.25:1 | 30W           | 5W            | -40°C ~ +85°C       | 13* 18*13.8mm   |
| K    | 24.0-26.0GHz    | 0.5dB          | 20dB      | 1.25:1 | 30W           | 5W            | -40°C ~ +85°C       | 13* 18*13.8mm   |
| K    | 25.0-27.0GHz    | 0.5dB          | 20dB      | 1.25:1 | 30W           | 5W            | -40°C ~ +85°C       | 13* 18*13.8mm   |
| Ka   | 26.5-40.0GHz    | 1.7dB          | 12dB      | 1.8:1  | 10W           | 2W            | -40°C ~ +80°C       | 13*16*12.6mm    |

## RF Circulator

- Frequency: 10MHz-40GHz
- Features: Low insertion loss, high frequency, high isolation, high power, compact size, vibration & impact resistance, custom design available.
- Types: Coaxial, Drop-in, Surface Mount, Microstrip, Waveguide



| Model Number         | Frequency Range | Insertion loss | Isolation | VSWR   | Forward Power | Reverse Power | Size(L x W x H)    |
|----------------------|-----------------|----------------|-----------|--------|---------------|---------------|--------------------|
| AP-TH-156-12M        | 150-162MHz      | 0.6dB          | 20dB      | 1.2:1  | 50W           | 20W           | 60 x 60x 25.5mm    |
| AP-TH-168-12M        | 162-174MHz      | 0.6dB          | 20dB      | 1.2:1  | 50W           | 20W           | 61 x 60x 25.5mm    |
| AP-TH-390/20-1NF     | 390-395MHz      | 0.4dB          | 20dB      | 1.25:1 | 150W          | -             | 52 x 48 x 26mm     |
| AP-TH-460-20-100M    | 450-470MHz      | 0.4dB          | 23dB      | 1.2:1  | 100W          | -             | 38 x 35 x11mm      |
| AP-TH-480-20-100M    | 470-490MHz      | 0.4dB          | 23dB      | 1.2:1  | 100W          | -             | 38 x 35 x11mm      |
| AP-CT-590M710M-20NF  | 590-710MHz      | 0.4dB          | 20dB      | 1.25:1 | 500W          | 500W          | 56 x 53 x 20mm     |
| AP-CT-700M850M-20N   | 700-850MHz      | 0.4dB          | 20dB      | 1.25:1 | 500W          | 500W          | 56 x 53 x 20mm     |
| AP-CT-850M1000M-20NF | 850-1000MHz     | 0.4dB          | 20dB      | 1.25:1 | 500W          | 500W          | 56 x 53 x 20mm     |
| AP-CT-2300M2400M-23S | 2300-2400MHz    | 0.3dB          | 23dB      | 1.2:1  | 100W          | 100W          | 28.5 x 25.4 x 15mm |
| AP-CT-2570M2615M-23S | 2570-2615MHz    | 0.3dB          | 23dB      | 1.2:1  | 100W          | 100W          | 28.5 x 25.4 x 15mm |
| AP-CT-4.5G5.0G-20N   | 4500-5000MHz    | 0.6dB          | 20dB      | 1.25:1 | 300W          | 300W          | 25 x 25x 18mm      |
| AP-CT-4.7G5.1G-20N   | 4700-5100MHz    | 0.6dB          | 20dB      | 1.25:1 | 300W          | 300W          | 25 x 25x 18mm      |
| AP-CT-4.8G5.9G-20N   | 4800-5900MHz    | 0.6dB          | 20dB      | 1.25:1 | 300W          | 300W          | 25 x 25x 18mm      |
| AP-CT-5.0G6.0G-20N   | 5000-6000MHz    | 0.6dB          | 20dB      | 1.25:1 | 300W          | 300W          | 25 x 25x 18mm      |
| AP-CT-6.5G7.0G-20N   | 6500-7000MHz    | 0.6dB          | 20dB      | 1.25:1 | 300W          | 300W          | 25 x 25x 18mm      |
| AP-CT-7.0G8.0G-20N   | 7000-8000MHz    | 0.6dB          | 20dB      | 1.25:1 | 300W          | 300W          | 25 x 25x 18mm      |



## Drop-in Circulators

| Band | Frequency Range | Insertion Loss | Isolation | VSWR   | Forward Power | Reverse Power | Working Temperature | Size(L x W x H) |
|------|-----------------|----------------|-----------|--------|---------------|---------------|---------------------|-----------------|
| UHF  | 350-370MHz      | 0.35dB         | 20dB      | 1.25:1 | 300W          | 300W          | -20°C ~ +65°C       | 35*38*11mm      |
| UHF  | 380-460MHz      | 0.5dB          | 18dB      | 1.3:1  | 300W          | 300W          | -20°C ~ +65°C       | 35*38*11mm      |
| UHF  | 400-470MHz      | 0.4dB          | 20dB      | 1.25:1 | 300W          | 300W          | -30°C ~ +70°C       | 35*38*11mm      |
| UHF  | 450-520MHz      | 0.4dB          | 20dB      | 1.25:1 | 300W          | 300W          | -20°C ~ +65°C       | 35*38*11mm      |
| UHF  | 600-800MHz      | 0.5dB          | 19dB      | 1.25:1 | 300W          | 300W          | -20°C ~ +65°C       | 35*38*11mm      |
| UHF  | 700-900MHz      | 0.4dB          | 20dB      | 1.25:1 | 300W          | 300W          | -30°C ~ +70°C       | 35*38*11mm      |
| L    | 1.0-1.1GHz      | 0.3dB          | 20dB      | 1.2:1  | 200W          | 200W          | -40°C ~ +85°C       | 25.4*25.4*10mm  |
| L    | 1.2-1.4GHz      | 0.3dB          | 20dB      | 1.2:1  | 200W          | 200W          | -40°C ~ +85°C       | 25.4*25.4*10mm  |
| L    | 1.4-1.6GHz      | 0.3dB          | 20dB      | 1.2:1  | 200W          | 200W          | -40°C ~ +85°C       | 25.4*25.4*10mm  |
| L    | 1.6-1.8GHz      | 0.3dB          | 20dB      | 1.2:1  | 200W          | 200W          | -40°C ~ +85°C       | 25.4*25.4*10mm  |
| L    | 1.8-2.0GHz      | 0.3dB          | 20dB      | 1.2:1  | 200W          | 200W          | -40°C ~ +85°C       | 25.4*25.4*10mm  |
| S    | 2.0-2.2GHz      | 0.3dB          | 20dB      | 1.25:1 | 200W          | 200W          | -40°C ~ +85°C       | 25.4*25.4*10mm  |
| S    | 2.2-2.4GHz      | 0.3dB          | 20dB      | 1.25:1 | 200W          | 200W          | -40°C ~ +85°C       | 25.4*25.4*10mm  |
| S    | 2.7-3.1GHz      | 0.3dB          | 20dB      | 1.25:1 | 200W          | 200W          | -40°C ~ +85°C       | 25.4*25.4*10mm  |
| S    | 3.0-3.6GHz      | 0.3dB          | 20dB      | 1.25:1 | 200W          | 200W          | -40°C ~ +85°C       | 25.4*25.4*10mm  |
| S    | 2.9-3.3GHz      | 0.3dB          | 20dB      | 1.25:1 | 60W           | 60W           | -40°C ~ +85°C       | 12.7*12.7*8mm   |
| C    | 4.4-5.0GHz      | 0.4dB          | 20dB      | 1.25:1 | 60W           | 60W           | -40°C ~ +85°C       | 12.7*12.7*8mm   |
| C    | 5.0-6.0GHz      | 0.4dB          | 18dB      | 1.25:1 | 60W           | 60W           | -40°C ~ +85°C       | 12.7*12.7*8mm   |
| C    | 6.5-7.0GHz      | 0.4dB          | 20dB      | 1.25:1 | 60W           | 60W           | -40°C ~ +85°C       | 12.7*12.7*8mm   |
| C    | 7.0-8.0GHz      | 0.4dB          | 20dB      | 1.25:1 | 60W           | 60W           | -40°C ~ +85°C       | 12.7*12.7*8mm   |
| X    | 8.0-9.0GHz      | 0.35dB         | 20dB      | 1.25:1 | 30W           | 30W           | -40°C ~ +85°C       | 9*10*5.1mm      |
| X    | 9.0-10.0GHz     | 0.35dB         | 20dB      | 1.25:1 | 30W           | 30W           | -40°C ~ +85°C       | 9*10*5.1mm      |
| X    | 10.0-11.0GHz    | 0.35dB         | 20dB      | 1.25:1 | 30W           | 30W           | -40°C ~ +85°C       | 9*10*5.1mm      |
| X    | 11.0-12.0GHz    | 0.35dB         | 20dB      | 1.25:1 | 30W           | 30W           | -40°C ~ +85°C       | 9*10*5.1mm      |
| X    | 8.0-12.0GHz     | 0.5dB          | 18dB      | 1.3:1  | 30W           | 30W           | -40°C ~ +85°C       | 9*10*5.1mm      |
| KU   | 13.0-15.0GHz    | 0.5dB          | 18dB      | 1.25:1 | 30W           | 30W           | -40°C ~ +85°C       | 9*10*5.1mm      |
| KU   | 14.0-16.0GHz    | 0.5dB          | 18dB      | 1.25:1 | 30W           | 30W           | -40°C ~ +85°C       | 9*10*5.1mm      |
| KU   | 16.0-18.0GHz    | 0.5dB          | 18dB      | 1.25:1 | 30W           | 30W           | -40°C ~ +85°C       | 9*10*5.1mm      |
| K    | 18.0-22.0GHz    | 0.6dB          | 18dB      | 1.3:1  | 30W           | 30W           | -40°C ~ +85°C       | 13* 18*13.8mm   |
| K    | 21.0-23.0GHz    | 0.5dB          | 20dB      | 1.25:1 | 30W           | 30W           | -40°C ~ +85°C       | 13* 18*13.8mm   |
| K    | 23.0-25.0GHz    | 0.5dB          | 20dB      | 1.25:1 | 30W           | 30W           | -40°C ~ +85°C       | 13* 18*13.8mm   |
| K    | 24.0-26.0GHz    | 0.5dB          | 20dB      | 1.25:1 | 30W           | 30W           | -40°C ~ +85°C       | 13* 18*13.8mm   |
| K    | 27.0-29.0GHz    | 0.5dB          | 20dB      | 1.25:1 | 30W           | 30W           | -40°C ~ +85°C       | 13* 18*13.8mm   |
| K    | 27.0-31.0GHz    | 1.1dB          | 16dB      | 1.4:1  | 30W           | 30W           | -40°C ~ +85°C       | 13* 18*13.8mm   |
| K    | 33.0-37.0GHz    | 1.2dB          | 16dB      | 1.4:1  | 30W           | 30W           | -40°C ~ +85°C       | 13* 18*13.8mm   |
| K    | 22.0-33.0GHz    | 1.7dB          | 13dB      | 1.7:1  | 10W           | 10W           | -40°C ~ +80°C       | 13*16*12.6mm    |
| Ka   | 26.5-40.0GHz    | 1.7dB          | 12dB      | 1.8:1  | 10W           | 10W           | -40°C ~ +80°C       | 13*16*12.6mm    |

## Coupler

- Frequency: DC-67.5GHz
- Features: Low insertion loss, high isolation, high power, low PIM, waterproof, custom design available.
- Types: Cavity, Microstrip, Waveguide



| Model Number                           | Frequency Range | Coupling  | Insertion Loss                            | Directivity    | VSWR   | Intermodulation    | Connector                 | Size               |
|--|-----------------|---|---|----------------|--------|--------------------|---------------------------|--------------------|
| AP-PC-66/500-10QN                      | 66-500MHz       | 10±3.5dB@66-100MHz<br>10±1.0dB@100-500MHz   | 0.9dB                                     | 15dB@66-500MHz | 1.3:1  | ≤ -130dBc@2×43dBm  | QN-F                      | 381 x 144.4 x 30mm |
| AP-PC-70M500M-20D<br>Hybrid 2*2        | 70-500MHz       | 3dB   | 4.5dB                                     | 20dB           | 1.4:1  | ≤ -135dBc@2*43dBm  | DIN(7/16)-F               | 154 x 150x 36.5mm  |
| AP-BRIDGE3-136M240M<br>-20S Hybrid 2*2 | 136-240 MHz     | 3dB   | 0.5dB                                     | 20dB           | 1.3:1  | -                  | SMA-F                     | 66 x 44 x 14 mm    |
| AP-DC-340M2000M-6/1<br>0/15/20/30N     | 340-2000MHz     | 6±1.5dB<br>10±1.5dB<br>15±1.5dB<br>20±1.5dB<br>30±1.5dB   | 2.0dB<br>1.0dB<br>0.5dB<br>0.4dB<br>0.4dB | 18dB           | 1.5:1  | -                  | N-F                       | 160 x 33 x 21mm    |
| AP-BC-340M2700M-23N<br>Hybrid 2*2      | 340-2700MHz     | 3.1±1.4 dB@340-380MHz<br>3.1±0.9 dB@380-2700MHz   | 0.2dB                                     | 23dB           | 1.2:1  | ≤-155 dBc@2*43dBm  | 4.3/10-F,N-F,7/16(DIN)-F, | 184 x 49 x 30mm    |
| AP-DC-350M2700M<br>-18Nx               | 350-2700MHz     | 6±1.5@340-380MHz<br>6±1.1@380-2700MHz<br>10±1.7@340-380MHz<br>10±1.2@380-2700MHz<br>15±1.7@340-380MHz<br>15±1.2@380-2700MHz<br>20±1.8@340-380MHz<br>20±1.2@380-2700MHz<br>30±1.8@340-380MHz<br>30±1.5@380-2700MHz | 1.8dB<br>0.8dB<br>0.5dB<br>0.3dB<br>0.3dB | 18dB           | 1.25:1 | ≤ -153 dBc@2*43dBm | N-F                       | 180 x 47 x 23mm    |

| Model Number                         | Frequency Range | Coupling   | Insertion Loss   | Directivity                                   | VSWR  | Intermodulation      | Connector                        | Size  |
|--------------------------------------|-----------------|--|--|---|---|----------------------|----------------------------------|---|
| AP-PT-350M5850M<br>-4310Fx           | 350-5850MHz     | 5dB<br>6dB<br>7dB<br>8dB<br>10dB<br>13dB<br>15dB<br>20dB<br>30dB   | 1.8dB<br>1.3dB<br>1.0dB<br>0.7dB<br>0.4dB<br>0.2dB<br>0.1dB<br>0.1dB<br>0.1dB          |   | 1.2 : 1   | ≤<br>-155dBc@2x43dBm | 4.3-10/F                         | 98 x 25 x 25mm  |
| AP-DC1-0.5G6G-S10                    | 500-6000MHz     | 10±1dB   | 0.5dB  | 18dB  | 1.2 : 1   | -                    | -                                | -   |
| AP-DC1-0.5G18G-S20                   | 500-18000MHz    | 20±1.5dB   | 1.2dB  | 10dB  | 1.6 : 1   | -                    | -                                | -   |
| AP-DC-575M3800M<br>-4310Fx           | 575-3800MHz     | 3±0.8dB<br>5±1.0dB<br>6±1.0dB<br>8±1.0dB<br>10±1.0dB<br>13±1.0dB<br>15±1.0dB<br>20±1.0dB<br>30±1.0dB<br>40±1.5dB | 3.6dB<br>2.3dB<br>1.8dB<br>1.1dB<br>0.8dB<br>0.5dB<br>0.5dB<br>0.4dB<br>0.3dB<br>0.3dB | 20dB@575-<br>3600MHz<br>18dB@3600<br>-3800MHz | 1.25:1  | ≤<br>-155dBc@2x43dBm | 4.3-10/F,N<br>F,7/16(DIN)<br>-F  | 134 x 47 x 27mm   |
| AP-PC-575-6000-XC43DI                | 575-6000MHz     | 6±1.1dB<br>8±1.2dB<br>10±1.2dB<br>13±1.3dB<br>15±1.35dB<br>20±1.4dB  | 1.9dB<br>1.2dB<br>0.9dB<br>0.6dB<br>0.5dB<br>0.3dB                                     | 10-20dB@5<br>75-6000MH<br>z                   | 1.25:1(57<br>5-3800M<br>Hz)<br>1.30:1(38<br>00-6000<br>MHz) | ≤<br>-160dBc@2x43dBm | 4.3/10 F,N<br>F,7/16 DIN         | 6-8dB:<br>120.5 x 41.6 x<br>23mm<br><br>10-20dB:<br>122.5 x 43.6x23mm |
| AP-DC-575M3800M-DIN<br>Fx Hybrid 2*2 | 575-3800MHz     | 3.1 ± 0.9dB  | 0.2dB  | 23dB  | 1.25:1  | ≤<br>-161dBc@2*43dBm | 4.3-10/F,N<br>-F,7/16(DI<br>N)-F | 140 x 49 x 38mm   |
| AP-DC1-0.5G18G-S20                   | 500-18000MHz    | 20±1.5dB   | 1.2dB  | 10dB  | 1.6 : 1   | -                    | -                                | -   |

| Model Number                               | Frequency Range | Coupling   | Insertion Loss  | Directivity  | VSWR    | Intermodulation       | Connector | Size                   |
|--|-----------------|--|---|--|---------|-----------------------|-----------|------------------------|
| AP-PC-69-27-Nf-XdB                         | 698-2700MHz     | 5±0.8dB<br>6±0.8dB<br>7±0.8dB<br>8±0.8dB<br>10±0.8dB<br>12±1.0dB<br>15±1.0dB<br>20±1.2dB<br>25±1.2dB<br>30±1.2dB<br>35±1.2dB<br>40±1.5dB | 2.1dB<br>1.65dB<br>1.3dB<br>1.1dB<br>0.75dB<br>0.6dB<br>0.4dB<br>0.3dB<br>0.2dB<br>0.2dB<br>0.2dB | 25dB<br>26dB<br>27dB<br>28dB<br>30dB<br>32dB<br>35dB<br>40dB<br>45dB<br>50dB<br>55dB<br>60dB | 1.25:1  | ≤ -150dBc@2×<br>43dBm | N-F       | 129 x 47.5 x 24mm      |
| AP-698-2700-200W<br>Hybrid 2*2             | 698-2700MHz     | 3.1±0.5dB  | 0.2dB   | 25dB   | 1.25:1  | ≤-153<br>dBc@2*43dBm  | N-F       | 146 x 46 x 23mm        |
| AP-BC4X4-698M2700M-<br>4310F150 Hybrid 4*4 | 698-2700MHz     | 6.1 +/-1.0dB   | 0.5dB   | 23dB   | 1.25:1  | ≤<br>-153dBc@2*43dBm  | 4.3-10/F  | 274.4 x 93 x 38mm      |
| AP-DC1-1G4G-S06                            | 1000-4000MHz    | 6±0.7dB  | 0.4dB   | 20dB   | 1.2 : 1 | -                     | -         | -                      |
| AP-DC1-2G18G-S10                           | 2000-18000MHz   | 10±1dB   | 0.8dB   | 12dB   | 1.5 : 1 | -                     | -         | -                      |
| AP-DC1-4G18G-S10                           | 4000-18000MHz   | 10±1dB   | 0.6dB   | 12dB   | 1.5 : 1 | -                     | -         | -                      |
| AP-DC1-6G18G-S30                           | 6000-18000MHz   | 30±1.5dB   | 0.6dB   | 12dB   | 1.5 : 1 | -                     | -         | -                      |
| AP-DC1-8G40G-S30                           | 8000-40000MHz   | 30±1.0dB   | 1.5dB   | 10dB   | 1.6:1   | -                     | -         | -                      |
| AP-DC1-18G40G-S10                          | 8000-40000MHz   | 10±1.0dB   | 1.1dB   | 12dB   | 1.6:1   | -                     | -         | -                      |
| AP-DC1-18G40G-S20                          | 8000-40000MHz   | 20±1.0dB   | 1.0dB   | 12dB   | 1.6:1   | -                     | -         | -                      |
| AP-DC1-2G18G-S10                           | 2000-18000MHz   | 10±1dB   | 0.8dB   | 12dB   | 1.5 : 1 | -                     | -         | -                      |
| AP-DC1-4G18G-S10                           | 4000-18000MHz   | 10±1dB   | 0.6dB   | 12dB   | 1.5 : 1 | -                     | -         | -                      |
| AP-DC1-6G18G-S30                           | 6000-18000MHz   | 30±1.5dB   | 0.6dB   | 12dB   | 1.5 : 1 | -                     | -         | -                      |
| AP-DC1-8G40G-S30                           | 8000-40000MHz   | 30±1.0dB   | 1.5dB   | 10dB   | 1.6:1   | -                     | -         | -                      |
| AP-DC1-18G40G-S10                          | 18000-40000MHz  | 10±1.0dB   | 1.1dB   | 12dB   | 1.6:1   | -                     | -         | -                      |
| AP-DC1-18G40G-S20                          | 18000-40000MHz  | 20±1.0dB   | 1.0dB   | 12dB   | 1.6:1   | -                     | -         | -                      |
| AP-PC-300-500-xNF                          | 300-500MHz      | 6±1.0dB<br>10±1.0dB<br>15±1.0dB<br>20±1.0dB<br>30±1.0dB  | 1.7dB<br>0.8dB<br>0.5dB<br>0.3dB<br>0.2dB   | 20dB<br>13dB   | 1.25:1  | -                     | N-F       | 142mm x 37mm x<br>23mm |

| Model Number   | Frequency Range | Coupling                                    | Insertion Loss | Directivity                                   | VSWR  | Intermodulation   | Connector              | Size  |
|--|-----------------|---|----------------|---|---|---|------------------------|---|
| AP-DC-350M2700M<br>-xdBNF<br>AP-DC-350M2700M<br>-xdB4310F<br>AP-DC-350M2700M<br>-xdBDINF | 350-2700MHz     | 5±1.0dB@380-2700MHz<br>5±1.3dB@350-380MHz   | 2.3dB          | 20dB  | 1.25:1  | ≤-160, 2x43dBm<br>(Reflection<br>Measurement<br>900MHz 1800MHz) | N-F<br>4310-F<br>DIN-F | 213.0x 65.0<br>x23.0mm<br>217.4 x 67.2.0 x<br>27.0mm<br>220.2 x 68.6<br>x38.0mm |
|  |                 | 6±1.0dB@380-2700MHz<br>6±1.5dB@350-380MHz   | 1.8dB          |   |   |   |                        |   |
|  |                 | 7±1.0dB@380-2700MHz<br>7±1.5dB@350-380MHz   | 1.5dB          |   |   |   |                        |   |
|  |                 | 8±1.0dB@380-2700MHz<br>8±1.5dB@350-380MHz   | 1.2dB          |   |   |   |                        |   |
|  |                 | 10±1.2dB@380-2700MHz<br>10±1.7dB@350-380MHz | 1.1dB          |   |   |   |                        |   |
|  |                 | 13±1.2dB@380-2700MHz<br>13±1.7dB@350-380MHz | 0.5dB          |   |   |   |                        |   |
|  |                 | 15±1.2dB@380-2700MHz<br>15±1.7dB@350-380MHz | 0.5dB          |   |   |   |                        |   |
|  |                 | 20±1.2dB@380-2700MHz<br>20±1.8dB@350-380MHz | 0.4dB          |   |   |   |                        |   |
| 30±1.5dB@380-2700MHz<br>30±1.8dB@350-380MHz  | 0.3dB           | 18dB  |                |   |   |   |                        |   |
| AP-DC-350M3800M<br>-xdBNF<br>AP-DC-350M3800M<br>-xdB4310F                                | 350-3800MHz     | 5±1.2dB                                     | 2.3dB          | 20dB  | 1.25:1  | ≤-160, 2x43dBm<br>(Reflection<br>Measurement<br>900MHz 1800MHz) | N-F<br>4310-F          | 209.5 x 64.5<br>x28.0mm<br>213.5 x 66.5<br>x28.0mm                              |
|  |                 | 6±1.2dB                                     | 1.8dB          |   |   |   |                        |   |
|  |                 | 7±1.2dB                                     | 1.5dB          | 18dB  | 1.30:1  |   |                        |   |
|  |                 | 8±1.2dB                                     | 1.2dB          |   |   |   |                        |   |
|  |                 | 10±1.5dB                                    | 1.1dB          | 17dB  |   |   |                        |   |
|  |                 | 13±1.5dB                                    | 0.5dB          |   |   |   |                        |   |
| 15±1.5dB<br>20±1.6dB   | 0.5dB<br>0.4dB  |   |                |   |   |   |                        |   |
| AP-DC-550M6000M<br>-xdBNF  | 555-6000MHz     | 5±1.1dB                                     | 2.5dB          | 20dB@555-<br>3800MHz<br>18dB@3800<br>-6000MHz | 1.25:1@<br>555-380<br>0MHz<br>1.30:1@<br>3800-60<br>00MHz | ≤-160, 2x43dBm<br>(Reflection<br>Measurement<br>900MHz 1800MHz) | N-F<br>4310-F          | -   |
|  |                 | 6±1.1dB                                     | 1.9dB          |   |   |   |                        |   |
|  |                 | 7±1.2dB                                     | 1.7dB          |   |   |   |                        |   |
|  |                 | 8±1.2dB                                     | 1.2dB          |   |   |   |                        |   |
|  |                 | 10±1.2dB                                    | 0.9dB          |   |   |   |                        |   |
|  |                 | 13±1.3dB                                    | 0.6dB          |   |   |   |                        |   |
|  |                 | 15±1.35dB                                   | 0.5dB          |   |   |   |                        |   |
|  |                 | 20±1.4dB                                    | 0.3dB          |   |   |   |                        |   |

| Model Number   | Frequency Range  | Coupling   | Insertion Loss | Directivity | VSWR  | Intermodulation   | Connector              | Size  |
|--|--|--|----------------|-------------|---|---|------------------------|---|
| AP-PT-136M960M<br>-xdBNF<br>AP-PT-136M960M<br>-xdB4310F                                  | 136-960MHz   | 5dB<br>7dB<br>10dB<br>13dB<br>15dB<br>20dB               | -              | -           | 1.40:1<br>1.30:1<br>1.25:1<br>1.20:1<br>1.15:1<br>1.10:1  | ≤-160, 2x43dBm<br>(Reflection<br>Measurement<br>900MHz 1800MHz) | N-F<br>4310-F          | 155.6 x 43.0 x<br>25.0mm<br>162.0 x 46.0 x<br>25.0mm                            |
| AP-PT-136M2700M<br>-xdBNF<br>AP-PT-136M2700M<br>-xdB4310F<br>AP-PT-136M2700M<br>-xdBDINF | 136-350MHz<br>350-960MHz<br>1710-2700MHz   | 5dB<br>6dB<br>7dB<br>8dB<br>10dB<br>15dB<br>20dB         | -              | -           | 1.35:1@<br>350-960<br>MHz<br>1.30:1@<br>350-960<br>MHz<br>1.25:1@<br>1710-27<br>00MHz<br>1.25:1@<br>350-270<br>0MHz   | ≤-160, 2x43dBm<br>(Reflection<br>Measurement<br>900MHz 1800MHz) | O-F<br>4310-F<br>DIN-F | 140.4 x 43.0 x<br>25.0mm<br>146.8 x 46.0 x<br>25.0mm<br>144.2 x 45.0<br>x25.0mm |
| AP-PT-136M5930M<br>-xdBNF<br>AP-PT-136M5930M<br>-xdB4310F                                | 136-350 MHz<br>350-520MHz<br>698-960MHz<br>1710-2700MHz<br>3500-4500 MHz<br>4900-5930MHz | 5dB<br>6dB<br>7dB<br>8dB<br>10dB<br>13dB<br>15dB<br>20dB | -              | -           | 1.3:1@6<br>94-2700<br>MHz<br>1.2:1@6<br>94-2700<br>MHz<br>1.15:1@<br>694-270<br>0MHz<br>1.45:1@<br>350-593<br>0MHz<br>1.4:1@3<br>50-5930<br>MHz<br>1.3:1@3<br>50-5930<br>MHz<br>1.2:1@3<br>50-5930<br>MHz | ≤-160, 2x43dBm  | N-F<br>4310-F          | 138.1x 45.0 x<br>25.0mm   |

## Power Divider

- Frequency: DC-67.5GHz
- Features: Low insertion loss, high isolation, high power, low PIM, waterproof, custom design available.
- Types: Cavity, Microstrip, Waveguide



| Model Number              | Frequency Range | Ways      | Insertion Loss                            | Isolation                      | VSWR    | Power | Intermodulation      | Connector   |
|---------------------------|-----------------|-----------|---|--------------------------------|---------|-------|----------------------|-------------|
| AP-PD-66-1000-02QNF       | 66-1000MHz      | 2-way     | 3.8dB(66-900MHz)<br>4.0dB(900-1000MHz)    | 16dB@66-80MHz<br>18dB@80-1000M | 1.4:1   | 100W  | ≤-140dBc<br>@2*43dBm | QN-F        |
| AP-PD4-134M3700M-18N      | 134-3700MHz     | 3/4-way   | 4.2dB                                     | 18dB                           | 1.4:1   | 30W   | -                    | N-F         |
| AP-PD6-200M800M-18SH      | 200-800MHz      | 6-way     | 1.2dB                                     | 18dB                           | 1.4:1   | 50W   | -                    | SMA-F       |
| AP-PD-300-960-03N         | 300-960MHz      | 2/3/4-way | 0.5dB                                     | 20dB                           | 1.25:1  | 100W  | ≤-130dBc@2*43dBm     | N-F         |
| AP-PD-340M2000M-20N       | 340-2000MHz     | 2/3/4-way | 0.8dB                                     | 20dB                           | 1.5:1   | 50W   | ≤-150dBc@2*43dBm     | N-F         |
| AP-PS-380M2700M-xNF       | 380-2700MHz     | 2/3/4-way | 0.25dB                                    | -                              | 1.5:1   | 300W  | ≤-150dBc@2*43dBm     | N-F         |
| AP-PD4-500M8000M-20S      | 500-8000MHz     | 4-way     | 3.0dB                                     | 25dB                           | 1.18:1  | 30W   | -                    | SMA- F      |
| AP-PD4-0.5G18G-30W        | 500-18000MHz    | 4-way     | 4.0dB                                     | 16dB                           | 1.7:1   | 30W   | -                    | -           |
| AP-PD2-575M3800M-DINF300  | 575-3800MHz     | 2/3/4-way | 0.3dB                                     | -                              | 1.2:1   | 300W  | ≤-155dBc@2*43dBm     | 7/16(DIN)-F |
| AP-PD2-575M3800M-4310F300 | 575-3800MHz     | 2/3/4-way | 0.3dB                                     | -                              | 1.2:1   | 300W  | ≤-155dBc@2*43dBm     | 4.3-10/F    |
| AP-PS-575-6000-XC43di     | 575-6000MHz     | 2/3/4-way | 0.2dB(575-2700MHz)<br>0.4dB(2700-6000MHz) | -                              | 1.25:1  | 300W  | ≤-160<br>dBc@2x43dBm | 4.3/10-F    |
| AP-PD-698-2700-2N         | 698-2700MHz     | 2/3/4-way | 0.4dB                                     | -                              | -       | 100W  | ≤-130dBc@2*43dBm     | N-F         |
| AP-PD-800M3800M-2N        | 800-3800 MHz    | 2-way     | 3.5dB                                     | 20dB                           | 1.25:1  | 50W   | ≤-150dBc@2*33dBm     | N-F         |
| AP-PD1-700M2700M-20S-1    | 700-2700MHz     | 2-way     | 0.4dB                                     | 20dB                           | 1.2: 1  | 30W   | -                    | SMA-F       |
| AP-PD-800M3800M-2N        | 800-3800 MHz    | 2-way     | 3.5dB                                     | 20dB                           | 1.25: 1 | 50W   | ≤-150dBc@2*33dBm     | N-F         |
| AP-PD2-1G18G-18S          | 1000-18000MHz   | 2-way     | 1.2dB                                     | 20dB                           | 1.4:1   | 20W   | -                    | SMA- F      |
| AP-PD4-1G18G-16S          | 1000-18000MHz   | 4-way     | 3.0dB                                     | 18dB                           | 1.4:1   | 20W   | -                    | SMA- F      |
| AP-PD2-2G8G-20N           | 2000-8000MHz    | 2-way     | 0.8dB                                     | 20dB                           | 1.25:1  | 30W   | -                    | N- F        |
| AP-PD8-2G18G-16S          | 2000-18000MHz   | 8-way     | 3.2dB                                     | 18dB                           | 1.5:1   | 20W   | -                    | SMA- F      |
| AP-PD2-4G8G-20S           | 4000-8000MHz    | 2-way     | 0.3dB                                     | 20dB                           | 1.25:1  | 30W   | -                    | SMA- F      |
| AP-PD2-DC40G-1W           | DC-40000MHz     | 2-way     | 7.50dB                                    | 12dB                           | 1.5:2.5 | 1W    | -                    | -           |
| AP-PD3-2G8G-30W           | 2000-8000MHz    | 3-way     | 1.1dB                                     | 18dB                           | 1.45:1  | 30W   | -                    | -           |
| AP-PD8-1G12.4G-30W        | 1000-12400MHz   | 8-way     | 3.5dB                                     | 16dB                           | 1.8:1   | 30W   | -                    | -           |
| AP-PD2-1G18G-30W          | 1000-18000MHz   | 2-way     | 1.5dB                                     | 16dB                           | 1.5:1   | 30W   | -                    | -           |
| AP-PD4-6G18G-30W          | 6000-18000MHz   | 4-way     | 1.2dB                                     | 18dB                           | 1.6:1   | 30W   | -                    | -           |
| AP-PD2-6G40G-10W          | 6000-40000MHz   | 2-way     | 1.5dB                                     | 16dB                           | 1.6:1   | 10W   | -                    | -           |

| Model Number        | Frequency Range | Ways  | Insertion Loss | Isolation | VSWR  | Power | Intermodulation   | Connector     |
|---------------------|-----------------|-------|----------------|-----------|---|-------|---|---------------|
| AP-PD4-7G8.5G-18N   | 7000-8500MHz    | 4-way | 1.0dB          | 18dB      | 1.4:1   | 30W   | -   | N- F          |
| AP-PD2-18G40G-20W   | 18000-40000MHz  | 2-way | 1.2dB          | 16dB      | 1.5:1   | 20W   | -   | -             |
| AP-PD4-18G40G-20W   | 18000-40000MHz  | 4-way | 1.6dB          | 16dB      | 1.7:1.5   | 20W   | -   | -             |
| AP-PD8-18G40G-20W   | 18000-40000MHz  | 8-way | 2.0dB          | 16dB      | 1.8:1.5   | 20W   | -   | -             |
| AP-PD-300-960-02N   | 300-960MHz      | -     | 0.3dB          | 20dB      | 1.25:1  | 100W  | -   | N-F           |
| AP-PD-300-960-03N   | 300-960MHz      | -     | 0.5dB          | 20dB      | 1.25:1  | 100W  | -   | N-F           |
| AP-PD-300-960-04N   | 300-960MHz      | -     | 0.4dB          | 20dB      | 1.25:1  | 100W  | -   | N-F           |
| AP-PS2-350M2700M-xF | 350-2700MHz     | -     | 0.3dB          | -         | 1.15:1@<br>380-270<br>0MHz<br>1.25:1@<br>350-380<br>MHz | 300W  | ≤-155dBc@2*43dBm  | N-F<br>4310-F |
| AP-PS3-350M2700M-xF | 350-2700MHz     | -     | 0.4dB          | -         | 1.25:1@<br>380-270<br>0MHz<br>1.30:1@<br>350-380<br>MHz | 300W  | ≤-155dBc@2*43dBm  | N-F<br>4310-F |
| AP-PS4-350M2700M-xF | 350-2700MHz     | -     | 0.5dB          | -         | 1.30:1  | 300W  | ≤-155dBc@2*43dBm  | N-F<br>4310-F |
| AP-PS2-350M3800M-xF | 350-3800MHz     | -     | 0.3dB          | -         | 1.25:1  | 300W  | ≤-160, 2x43dBm<br>(Reflection<br>Measurement<br>900MHz 1800MHz) | N-F<br>4310-F |
| AP-PS3-350M3800M-xF | 350-3800MHz     | -     | 0.4dB          | -         | 1.30:1  | 300W  | ≤-160, 2x43dBm<br>(Reflection<br>Measurement<br>900MHz 1800MHz) | N-F<br>4310-F |



| Model Number        | Frequency Range | Ways | Insertion Loss                              | Isolation | VSWR  | Power | Intermodulation   | Connector     |
|---------------------|-----------------|------|---|-----------|---|-------|---|---------------|
| AP-PS4-350M3800M-xF | 350-3800MHz     | -    | 0.5dB                                       | -         | 1.35:1  | 300W  | ≤-160, 2x43dBm<br>(Reflection<br>Measurement<br>900MHz 1800MHz) | N-F<br>4310-F |
| AP-PS2-555M6000M-xF | 555-6000MHz     | -    | 0.2dB@575-2700MHz<br>0.4dB@<br>2700-6000MHz | -         | 1.20:1@<br>575-380<br>0MHz<br>1.30:1@<br>3800-60<br>00MHz | 300W  | ≤-160, 2x43dBm<br>(Reflection<br>Measurement<br>900MHz 1800MHz) | N-F<br>4310-F |
| AP-PS3-550M6000M-xF | 555-6000MHz     | -    | 0.4dB@575-3800MHz<br>0.7dB@3800-6000MH<br>z | -         | 1.20:1@<br>575-380<br>0MHz<br>1.30:1@<br>3800-60<br>00MHz | 300W  | ≤-160, 2x43dBm<br>(Reflection<br>Measurement<br>900MHz 1800MHz) | N-F<br>4310-F |
| AP-PS4-550M6000M-xF | 555-6000MHz     | -    | 0.5dB@575-3800MHz<br>0.8dB@3800-6000MH<br>z | -         | 1.25:1@<br>575-380<br>0Mz<br>1.35:1@<br>3800-60<br>00MHz  | 300W  | ≤-160, 2x43dBm<br>(Reflection<br>Measurement<br>900MHz 1800MHz) | N-F<br>4310-F |

## Attenuator

- Frequency: DC-67.5GHz
- Features: high power, low PIM, waterproof, custom design available.
- Types: Coaxial, Chip, Waveguide



| Model Number    | Frequency Range | Attenuation | Attenuation Accuracy | Ripple | Power | PIM3             | Size(L x W x H)  |
|-----------------|-----------------|-------------|----------------------|--------|-------|------------------|------------------|
| AP-AT-DC3G-10Nx | DC-3000MHz      | 3dB         | ±0.4dB               | ±0.3dB | 10W   | -                | Φ30×58mm         |
|                 |                 | 6dB         | ±0.4dB               | ±0.5dB |       |                  |                  |
|                 |                 | 10dB        | ±0.6dB               | ±0.7dB |       |                  |                  |
|                 |                 | 15dB        | ±0.6dB               | ±0.8dB |       |                  |                  |
|                 |                 | 20dB        | ±0.6dB               | ±0.8dB |       |                  |                  |
| AP-RN-25-XX-3   | DC-3000MHz      | 3dB         | ±0.4dB               | ±0.3dB | 25W   | ≤-120dBc@2*33dBm | Φ45×109mm        |
|                 |                 | 6dB         | ±0.4dB               | ±0.5dB |       |                  |                  |
|                 |                 | 10dB        | ±0.6dB               | ±0.7dB |       |                  |                  |
|                 |                 | 15dB        | ±0.6dB               | ±0.8dB |       |                  |                  |
|                 |                 | 20dB        | ±0.8dB               | ±1.0dB |       |                  |                  |
| AP-SNW-50-XX-3  | DC-3000MHz      | 3dB         | ±0.4dB               | ±0.3dB | 50W   | ≤-120dBc@2*33dBm | 128 x 60 x 60mm  |
|                 |                 | 6dB         | ±0.4dB               | ±0.5dB |       |                  |                  |
|                 |                 | 10dB        | ±0.5dB               | ±0.7dB |       |                  |                  |
|                 |                 | 15dB        | ±0.5dB               | ±0.8dB |       |                  |                  |
|                 |                 | 20dB        | ±0.6dB               | ±0.8dB |       |                  |                  |
| AP-SNW-100-XX-3 | DC-3000MHz      | 3dB         | ±0.4dB               | ±0.3dB | 100W  | ≤-120dBc@2*33dBm | 165 x 100 x 60mm |
|                 |                 | 6dB         | ±0.4dB               | ±0.5dB |       |                  |                  |
|                 |                 | 10dB        | ±0.5dB               | ±0.7dB |       |                  |                  |
|                 |                 | 15dB        | ±0.5dB               | ±0.8dB |       |                  |                  |
|                 |                 | 20dB        | ±0.6dB               | ±0.8dB |       |                  |                  |
|                 |                 | 30dB        | ±0.8dB               | ±1.0dB |       |                  |                  |
|                 |                 | 30dB        | ±0.8dB               | ±1.0dB |       |                  |                  |
|                 |                 | 40dB        | ±1.0dB               | ±1.0dB |       |                  |                  |
|                 |                 | 40dB        | ±1.0dB               | ±1.0dB |       |                  |                  |
|                 |                 | 40dB        | ±1.0dB               | ±1.0dB |       |                  |                  |

| Model Number        | Frequency Range | Ways  | Insertion Loss   | Isolation | VSWR  | Power | Intermodulation   |
|---------------------|-----------------|---|--|-----------|-------|-------|-------------------|
| AP-AT-DC3G-2000Wxx  | DC-3000MHz      | 10dB<br>20dB<br>30dB<br>40dB<br>50dB<br>60dB                    | ±2.8dB<br>±2.5dB<br>±2.5dB<br>±2.5dB<br>±2.5dB<br>±3.0dB                               | -         | 2000W | -     | 410 x 400 x 147mm |
| AP-AT-DC6G-25N30    | DC-6000MHz      | 30dB  | ±1.3dB   | -         | 25W   | -     | Φ45×109mm         |
| AP-AT-DC6G-100Wx    | DC-6000MHz      | 3dB<br>6dB<br>10dB<br>20dB<br>30dB<br>40dB                      | ±1.0dB<br>±1.0dB<br>±1.0dB<br>±1.0dB<br>±1.0dB<br>±1.2dB                               | -         | 100W  | -     | 78×80×113.5mm     |
| AP-AT-DC6G-300WNx   | DC-6000MHz      | 1-10dB<br>11-20dB<br>30-40dB<br>50dB                            | ±1.2dB<br>±1.2dB<br>±1.3dB<br>±1.5dB   | -         | 300W  | -     | 78×80×280mm       |
| AP-AT-DC18G-2SFMx   | DC-18000MHz     | 1dB<br>2dB<br>3dB<br>5dB<br>6dB<br>10dB<br>15dB<br>20dB<br>30dB | ±0.5dB<br>±0.5dB<br>±0.5dB<br>±0.5dB<br>±0.5dB<br>±0.5dB<br>±0.7dB<br>±0.7dB<br>±0.7dB | -         | 2W    | -     | -                 |
| AP-AT-DC26.5G-2SFMx | DC-26500MHz     | 1dB<br>2dB<br>3dB<br>4dB<br>5dB<br>6dB<br>10dB<br>20dB<br>30dB  | ±0.5dB<br>±0.5dB<br>±0.5dB<br>±0.5dB<br>±0.5dB<br>±0.5dB<br>±0.5dB<br>±0.7dB<br>±0.7dB | -         | 2W    | -     | 30.04mm * φ8      |

| Model Number                            | Frequency Range | Ways  | Insertion Loss  | Isolation | VSWR  | Power | Intermodulation |
|---|-----------------|---|---|-----------|-------|-------|-----------------|
| AP-AT-DC40G-2Wx                         | DC-40000MHz     | 1-3dB<br>4-8dB<br>9-15dB<br>16-30dB<br>31-33dB<br>34-36dB<br>37-39dB<br>40dB        | -0.5/+0.8dB<br>-0.7/+0.9dB<br>-0.7/+0.7dB<br>-0.9/+1.0dB<br>-0.8/+0.8dB<br>-0.9/+0.9dB<br>-1.0/+1.0dB<br>-1.2/+1.2dB  | -         | 2W    | -     | Φ9mm x 15.2mm   |
| AP-AT-DC67G-1.85MFx                     | DC-67000MHz     | 1dB<br>2dB<br>3dB<br>4dB<br>5dB<br>6dB<br>7dB<br>8dB<br>9dB<br>10dB<br>20dB<br>30dB | -1.0/+1.5dB<br>-1.0/+1.5dB<br>1.0/+1.5dB<br>-1.0/+1.5dB<br>-1.0/+1.5dB<br>-1.0/+1.5dB<br>-1.0/+1.5dB<br>-1.0/+1.5dB<br>-1.0/+1.5dB<br>-1.0/+1.5dB<br>-1.0/+2.0dB<br>-1.0/+2.0dB | -         | 1W    | -     | Φ9mm*16mm       |
| AP-AT-DC18G-xWNx<br>Variable attenuator | DC-18000MHz     | 0-9dB<br>10-19dB<br>20-49dB<br>50-69dB<br>70-99dB                                   | ±0.8dB<br>±1.0dB<br>±1.5dB<br>±2.0dB<br>±2.5dB or 3.5%  | -         | 2W,5W | -     | Φ48mm x 163mm   |

## Low Noise Amplifier

| Product Type                | Frequency.Min (MHz) | Frequency.Max (MHz) | Connector | Gain (dB) | Power (dBm) | Noise figure |
|-----------------------------|---------------------|---------------------|-----------|-----------|-------------|--------------|
| AP-DLNA8-0.009-1000-1034    | 0.009               | 1000                | SMA       | 30        | 10          | 2            |
| AP-DLNA8-0.009-1000-1721-A2 | 0.009               | 1000                | SMA       | 50        | 13          | 1.8          |
| AP-DLNA8-0.009-3000-742     | 0.009               | 3000                | SMA       | 15        | 15          | 3            |
| AP-DLNA9-0.009-3000-1166    | 0.009               | 3000                | SMA       | 40        | 10          | 2.5          |
| AP-DLNA8-0.009-3000-013     | 0.009               | 3000                | SMA       | 41        | 15          | 3            |
| AP-DLNA7-0.009-300-1044     | 0.009               | 300                 | SMA       | 50        | 15          | 2.5          |
| AP-ZLNA-9K-6G-01            | 0.009               | 6000                | SMA       | 40        | 10          | 3.5          |
| AP-DLNA8-0.009-6000-2483    | 0.009               | 6000                | SMA       | 15        | 10          | 3            |
| AP-DLNA8-1.5-30-1944        | 1.5                 | 30                  | SMA       | 40        | 10          | 1.5          |
| AP-DLNA-30-1000-01          | 30                  | 1000                | SMA       | 30        | 15          | 1.4          |
| AP-DPA8-30-1000-1985        | 30                  | 1000                | N         | 48        | 50          |              |
| AP-DLNA8-30-2000-2315       | 30                  | 2000                | SMA       | 30        | 15          | 2.2          |
| AP-DLNA8-30-3000-1926       | 30                  | 3000                | SMA       | 17        | 10          | 3            |
| AP-DPA8-30-3000-2338        | 30                  | 3000                | SMA       | 30        | 30          |              |
| AP-DLNA8-30-3000-2308       | 30                  | 3000                | SMA       | 40        | 15          | 3            |
| AP-DLNA8-30-6000-026        | 30                  | 6000                | SMA       | 35        | 15          | 2.5          |
| AP-DLNA8-30-8000-014        | 30                  | 8000                | SMA       | 36        | 12          | 3            |
| AP-DLNA8-50-4000-2542       | 50                  | 4000                | N         | 20        | 20          | 2.9          |
| AP-DLNA8-100-500-2293       | 100                 | 500                 | SMA       | 30        | 5           | 2            |
| AP-DLNA8-100-3000-2313      | 100                 | 3000                | SMA       | 20        | 15          | 1.2          |
| AP-DLNA8-100-3200-1117      | 100                 | 3200                | SMA       | 28        | 15          | 1.7          |
| AP-DLNA-100-6000-14         | 100                 | 6000                | SMA       | 32        | 15          | 1.8          |
| AP-DLNA8-0.1-18G-2223       | 100                 | 18000               | SMA       | 24        | 22          | 4.5          |
| AP-DLNA8-240-480-2075       | 240                 | 480                 | SMA       | 40        | 10          | 0.69         |

| Product Type              | Frequency.Min (MHz) | Frequency.Max (MHz) | Connector | Gain (dB) | Power (dBm) | Noise figure |
|---------------------------|---------------------|---------------------|-----------|-----------|-------------|--------------|
| AP-DLNA8-400-8000-1209    | 400                 | 8000                | SMA       | 20        | 14          | 2.5          |
| AP-DPA9-400-8000-1165     | 400                 | 8000                | SMA       | 30        | 25          | 2.2          |
| AP-DLNA9-400-8000-1164    | 400                 | 8000                | SMA       | 30        | 14          | 2.5          |
| AP-DLNA8-400-8500-1073    | 400                 | 8500                | SMA       | 43        | 14          | 3            |
| AP-DPA8-400-8500-1067     | 400                 | 8500                | SMA       | 45        | 20          |              |
| AP-DLNA9-400-18000-1133   | 400                 | 18000               | SMA       | 45        | 11          | 3.3          |
| AP-DPA8-0.4-22G-2032      | 400                 | 22000               | SMA       | 40        | 30          |              |
| AP-DLNA8-500-2500-2309    | 500                 | 2500                | SMA       | 30        | 15          | 3            |
| AP-DLNA8-500-6500-1722-A2 | 500                 | 6500                | SMA       | 40        | 10          | 2.5          |
| AP-DLNA8-600-1000-1947    | 600                 | 1000                | SMA       | 45        | 10          | 1            |
| AP-DLNA8-800-2500-1645    | 800                 | 2500                | SMA       | 32        | 15          | 0.6          |
| AP-DLNA3-960-1215-1741    | 960                 | 1215                | N         | 20        | 17          | 1.1          |
| AP-DLNA7-1-6G-993         | 1000                | 6000                | SMA       | 45        | 15          | 1.5          |
| AP-DLNA8-1000-8000-025    | 1000                | 8000                | SMA       | 25        | 2           | 3            |
| AP-DLNA8-1000-12000-002   | 1000                | 12000               | SMA       | 50        | 15          | 2.5          |
| AP-DLNA8-1000-18000-741   | 1000                | 18000               | SMA       | 15        | 10          | 3.3          |
| AP-DPA8-1000-18000-1171   | 1000                | 18000               | SMA       | 25        | 25          |              |
| AP-DLNA8-1-18G-2079       | 1000                | 18000               | SMA       | 26        | 10          | 2.5          |
| AP-DLNA8-1000-18000-965   | 1000                | 18000               | SMA       | 30        | 15          | 3            |
| AP-DLNA8-1000-18000-015   | 1000                | 18000               | SMA       | 38        | 10          | 3.3          |
| AP-DLNA-1000-18000-01     | 1000                | 18000               | SMA       | 45        | 15          | 2.8          |
| AP-DPA8-1000-18000-1012   | 1000                | 18000               | SMA       | 50        | 15          | 2.8          |
| AP-DLNA8-1500-1600-2454   | 1500                | 1600                | N         | 35        | 15          | 0.88         |
| AP-DLNA8-1.5-1.64G-2076   | 1500                | 1640                | SMA       | 35        | 10          | 0.88         |
| AP-DLNA8-1500-2700-2312   | 1500                | 2700                | SMA       | 25        | 15          | 2            |
| AP-DLNA8-1660-1710-2057   | 1660                | 1710                | SMA       | 65        | 10          | 0.63         |
| AP-DLNA8-2000-4000-1646   | 2000                | 4000                | SMA       | 28        | 10          | 1            |

| Product Type              | Frequency.Min<br>(MHz) | Frequency.Max<br>(MHz) | Connector      | Gain (dB) | Power (dBm) | Noise figure |
|---------------------------|------------------------|------------------------|----------------|-----------|-------------|--------------|
| AP-DLNA8-2-6G-859         | 2000                   | 6000                   | SMA            | 37        | 12          | 0.9          |
| AP-DLNA8-2-18G-2310       | 2000                   | 18000                  | SMA            | 15        | 10          | 3            |
| AP-DLNA7-2-18G-848        | 2000                   | 18000                  | SMA            | 40        | 9           | 6            |
| AP-DLNA8-2-18G-2222       | 2000                   | 18000                  | SMA            | 43        | 15          | 2.4          |
| AP-DPA8-2-22G-1046        | 2000                   | 22000                  | SMA            | 40        | 30          | 4            |
| AP-DLNA8-2.2-2.7G-2077    | 2200                   | 2700                   | SMA            | 35        | 10          | 0.75         |
| AP-DLNA8-3000-5000-1000   | 3000                   | 5000                   | SMA            | 25        | 15          | 1            |
| AP-DLNA8-3000-6000-1644   | 3000                   | 6000                   | SMA            | 50        | 10          | 1            |
| AP-DLNA8-6-18G-2314       | 6000                   | 18000                  | SMA            | 19        | 10          | 3            |
| AP-DLNA8-6000-18000-1566  | 6000                   | 18000                  | SMA            | 25        | 10          | 2            |
| AP-DLNA8-7.25-7.75G-2035  | 7250                   | 7750                   | waveguide Port | 60        | 10          | 0.9          |
| AP-DLNA8-10.7-12.75G-2036 | 10700                  | 12750                  | waveguide Port | 60        | 10          | 1            |
| AP-DLNA8-15-25G-2311      | 15000                  | 25000                  | SMA            | 18        | 3           | 2            |
| AP-DLNA8-17.7-21.2G-2037  | 17700                  | 21200                  | waveguide Port | 60        | 10          | 1.6          |
| AP-DLNA8-18000-26500-011  | 18000                  | 26500                  | SMA            | 40        | 10          | 3            |
| AP-DLNA8-18000-40000-1072 | 18000                  | 40000                  | 2.92           | 30        | 15          | 4            |
| AP-DLNA8-18000-40000-966  | 18000                  | 40000                  | 2.92           | 30        | 15          | 4.5          |
| AP-DPA8-18-40G-1878       | 18000                  | 40000                  | 2.92           | 30        | 30          |              |
| AP-DLNA8-18-40G-2078      | 18000                  | 40000                  | 2.92           | 40        | 15          | 3.5          |
| AP-DPA8-18-40G-1313       | 18000                  | 40000                  | 2.92           | 40        | 20          | 4.2          |
| AP-DLNA7-18-40G-758       | 18000                  | 40000                  | 2.92           | 50        | 10          | 4            |
| AP-DLNA8-18000-40000-1066 | 18000                  | 40000                  | 2.92           | 50        | 15          | 4            |
| AP-DLNA8-18-40G-1324      | 18000                  | 40000                  | 2.4            | 50        | 15          | 4            |
| AP-DLNA7-20-22G-716       | 20000                  | 22000                  | 2.92           | 40        | 10          | 4            |
| AP-DPA9-22000-40000-1177  | 22000                  | 40000                  | 2.92           | 35        | 20          |              |
| AP-DLNA8-26500-40000-012  | 26500                  | 40000                  | 2.92           | 45        | 10          | 3            |
| AP-DLNA8-40-50G-1325      | 40000                  | 50000                  | 2.4            | 50        | 15          | 4            |

## RF Load

- Frequency: DC-67.5GHz
- Features: High power, low PIM, waterproof, custom design available.
- Types: Coaxial, Chip, Waveguide



| Model Number             | Frequency Range | Power                      | VSWR  | Impedance | PIM3                         | Connector   | Size(L x W x H)  |
|--------------------------|-----------------|----------------------------|---|-----------|------------------------------|-------------|------------------|
| AP-AL-03-10W             | DC-3000MHz      | 10W                        | 1.2:1   | 50Ω       | ≤-140dBc@2*33dBm             | DIN- M      | Φ35×62.5mm       |
| AP-DF-RN-25-3            | DC-3000MHz      | 25W                        | 1.2:1   | 50Ω       | -                            | N-M         | Φ45×90mm         |
| AP-AL-03-50W             | DC-3000MHz      | 50W                        | 1.2:1   | 50Ω       | ≤-120dBc@2*43dBm             | N-M         | 109 x 60 x 60mm  |
| AP-SNY-100-3             | DC-3000MHz      | 100W                       | 1.2:1   | 50Ω       | ≤-120dBc@2*43dBm             | N-M         | 120 x 100 x 60mm |
| AP-DF-RSB-1-3            | DC-6000MHz      | 1W                         | 1.25:1  | 50Ω       | -                            | SMA-M       | SW8 × 14.5mm     |
| AP-PL-DC18G-1WS          | DC-18000MHz     | 1W                         | 1.15:1  | 50Ω       | -                            | SMA-M       | 8.3*8 HEX.       |
| AP-PL-DC40G-2W           | DC-40000MHz     | 2W @ ≤25°C<br>0.5W @ 100°C | 1.35:1  | 50Ω       | -                            | 2.92-M      | 8.4*φ9.0         |
| AP-PL-DC67G-1W185        | DC-67000MHz     | 1W                         | 1.5:1   | 50Ω       | -                            | 1.85-M      | Φ7.8mm*16.5mm    |
| AP-PL-350M6000M-200Wx    | 350-6000MHz     | 200W                       | 1.25:1  | 50Ω       | ≤160dBc@2X43dBm              | N-F         | 170*224*66mm     |
| AP-AL-380-50W            | 380-395MHz      | 50W                        | 1.2:1   | 50Ω       | ≤-140dBc@2*33dBm             | QN angel -M | 80x 40 x 22mm    |
| AP-PL-350M6000M-30WNF    | 350-6000MHz     | 30W                        | 1.3:1@350-600MHz<br><br>1.25:1@600-4000MHz<br><br>1.32:1@4000-6000MHz | 50 Ω      | ≤155dBc@2X43dBm              | N-F         | -                |
| AP-PL-350M6000M-30WNM    |                 |                            |   |           | /                            | N-M         |                  |
| AP-PL-350M6000M-30WDINF  |                 |                            |   |           | ≤161dBc@2X43dBm<br>(Typical) | DIN-F       |                  |
| AP-PL-350M6000M-30WDINM  |                 |                            |   |           | /                            | DIN-M       |                  |
| AP-PL-350M6000M-30W4310F |                 |                            |   |           | ≤165dBc@2X43dBm<br>(Typical) | 4.3-10/F    |                  |
| AP-PL-350M6000M-30W4310M |                 |                            |   |           | ≤160dBc@2X43dBm<br>/         | 4.3-10/M    |                  |
|                          |                 |                            |   |           | ≤165dBc@2X43dBm<br>(Typical) |             |                  |

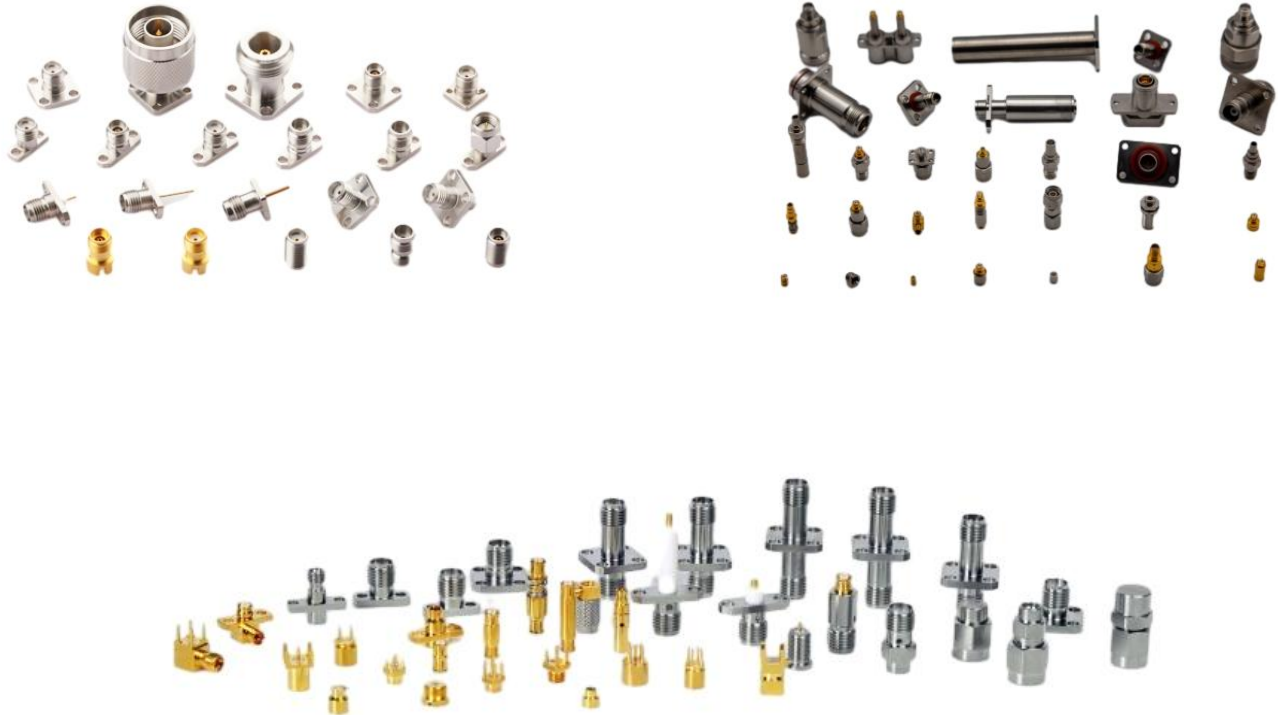


| Model Number              | Frequency Range | Power | VSWR  | Impedance | PIM3   | Connector | Size(L x W x H) |
|---------------------------|-----------------|-------|---|-----------|--|-----------|-----------------|
| AP-PL-350M6000M-50WNF     | 350-6000MHz     | 50W   | 1.3:1@350-600MHz<br>1.25:1@600-4000MHz<br>1.32:1@4000-6000MHz | 50 Ω      | ≤160dBc@2X43dBm<br>/<br>≤165dBc@2X43dBm<br>(Typical)<br>/<br>≤160dBc@2X43dBm<br>/<br>≤168dBc@2X43dBm<br>(Typical)<br>/<br>≤160dBc@2X43dBm<br>/<br>≤168dBc@2X43dBm<br>(Typical) | N-F       | -               |
| AP-PL-350M6000M-50WNM     |                 |       |   |           |  | N-M       |                 |
| AP-PL-350M6000M-50WDINF   |                 |       |   |           |  | DIN-F     |                 |
| AP-PL-350M6000M-50WDINM   |                 |       |   |           |  | DIN-M     |                 |
| AP-PL-350M6000M-50W4310F  |                 |       |   |           |  | 4.3-10/F  |                 |
| AP-PL-350M6000M-50W4310M  |                 |       |   |           |  | 4.3-10/M  |                 |
| AP-PL-350M6000M-60WDINM   |                 |       |   |           |  | DIN-M     |                 |
| AP-PL-350M6000M-60WDINF   | DIN-F           |       |   |           |  |           |                 |
| AP-PL-350M6000M-100WNF    | 350-6000MHz     | 100W  | 1.3:1@350-600MHz<br>1.25:1@600-4000MHz<br>1.32:1@4000-6000MHz | 50 Ω      | ≤160dBc@2X43dBm<br>/<br>≤165dBc@2X43dBm<br>(Typical)<br>/<br>≤160dBc@2X43dBm<br>/<br>≤165dBc@2X43dBm<br>(Typical)  | N-F       | -               |
| AP-PL-350M6000M-100WNM    |                 |       |   |           |  | N-M       |                 |
| AP-PL-350M6000M-100WDINF  |                 |       |   |           |  | DIN-F     |                 |
| AP-PL-350M6000M-100WDINM  |                 |       |   |           |  | DIN-M     |                 |
| AP-PL-350M6000M-100W4310F |                 |       |   |           |  | 4.3-10/F  |                 |
| AP-PL-350M6000M-100W4310M |                 |       |   |           |  | 4.3-10/M  |                 |
| AP-PL-350M6000M-100W4310M |                 |       |   |           |  | 4.3-10/M  |                 |

| Model Number              | Frequency Range | Power | VSWR  | Impedance | PIM3   | Connector | Size(L x W x H) |
|---------------------------|-----------------|-------|---|-----------|--|-----------|-----------------|
| AP-PL-350M6000M-200WNF    | 350-6000MHz     | 200W  | 1.3:1@350-600MHz<br>1.25:1@600-4000MHz<br>1.32:1@4000-6000MHz | 50 Ω      | ≤160dBc@2X43dBm<br>/<br>≤165dBc@2X43dBm<br>(Typical) | N-F       | -               |
| AP-PL-350M6000M-200WNM    |                 |       |   |           |  | N-M       |                 |
| AP-PL-350M6000M-200WDINF  |                 |       |   |           |  | DIN-F     |                 |
| AP-PL-350M6000M-200WDINM  |                 |       |   |           |  | DIN-M     |                 |
| AP-PL-350M6000M-200W4310F |                 |       |   |           |  | 4.3-10/F  |                 |
| AP-PL-350M6000M-200W4310M |                 |       |   |           |  | 4.3-10/M  |                 |

## Connector/Adaptor

- Frequency: DC-110GHz
- Types: SMA, BMA, SMB MCX, TNC, BNC, 7/16, N, SMP, SSMA, MMCX



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