



Apex Microwave Co. LTD

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Add: Yuehu Technology Center, Wuhou District, Chengdu, Sichuan, China

Cavity Combiner A7CC758M2690M35NSDL1

Revision record

Date	Version	Author	Revision description	Comment
2024/09/09	V1.1	Sam	Created	/

Electrical specification

Parameter	Specifications			
	LOW	MID	TDD	HI
Frequency range (MHz)	758-803 860-894 945-960	1805-1880 2110-2170	2300-2400 2570-2615	2620-2690
Return loss	≥15dB			
Insertion loss	≤1.5dB	≤1.5dB	≤1.5dB(2300-2400MHz) ≤3.0dB(2570-2615MHz)	≤3.0dB
Rejection (MHz)	≥35dB@1805-1880&2110-2170 ≥35dB@2300-2400&2570-2615 ≥35dB@2620-2690	≥35dB@791-803&945-960 ≥35dB@2300-2400&2570-2615 ≥35dB@2620-2690	≥35dB@791-803&945-960 ≥35dB@1805-1880&2110-2170 ≥35dB@2620-2690	≥35dB@791-803&945-960 ≥35dB@1805-1880&2110-2170 ≥35dB@2300-2400&2570-2615
Power Handling Per Band	42dBm average,52dBm Peak			
Power Handling For Common(TX-Ant)	52dBm average,60dBm Peak			
Impedance	50Ω			



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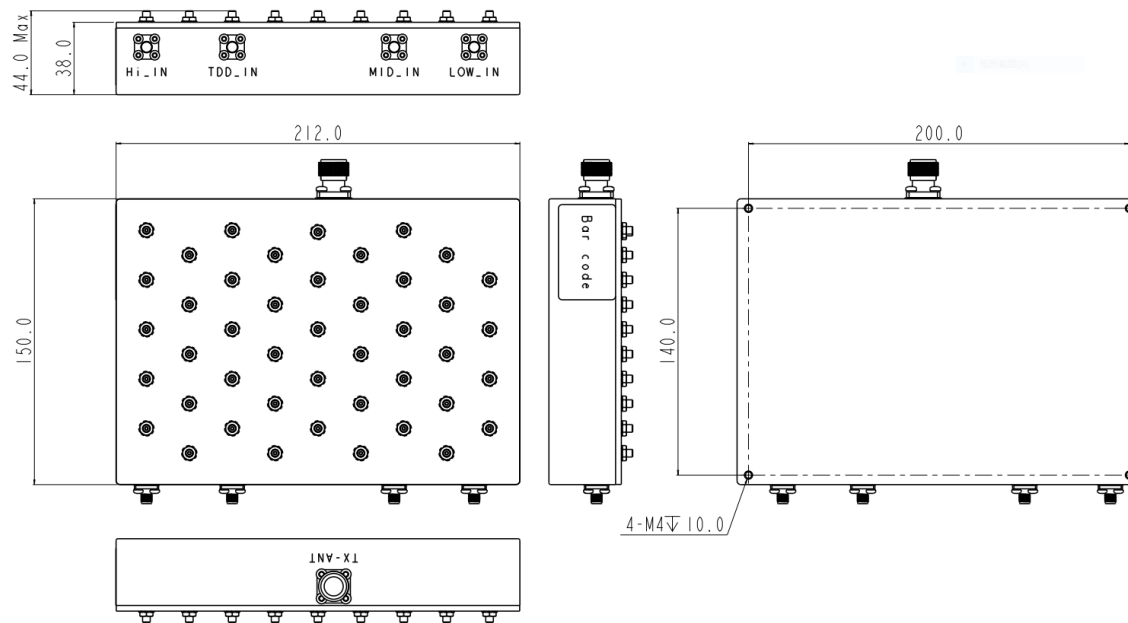
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Mechanical specification

Outline

Dimension	L x W x H: 212mm x 150mm x 38mm (44.0mm Max)
Connectors	TX-ANT:N-Female
	LOW_IN;MID_IN;TDD_IN;HI_IN:SMA-Female
Finish	Silver
Notes	Material shall be RoHS 6/6





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Simulation curve

m7 freq=1.805GHz dB(SP1.SP.S(2,1))=-0.284	m9 freq=2.110GHz dB(SP1.SP.S(2,1))=-0.290	m11 freq=2.300GHz dB(SP1.SP.S(3,1))=-0.332	m13 freq=2.570GHz dB(SP1.SP.S(3,1))=-1.210	m15 freq=2.620GHz dB(SP1.SP.S(4,1))=-2.382
m8 freq=1.880GHz dB(SP1.SP.S(2,1))=-0.754	m10 freq=2.170GHz dB(SP1.SP.S(2,1))=-0.329	m12 freq=2.400GHz dB(SP1.SP.S(3,1))=-0.313	m14 freq=2.615GHz dB(SP1.SP.S(3,1))=-2.468	m16 freq=2.690GHz dB(SP1.SP.S(4,1))=-0.807

