

Cavity Duplexer

ATD804M869M12B

Revision record

| Date | Version | Author | Revision description | Comment |
|------------|---------|--------|----------------------|---------|
| 2024/09/20 | V1.1 | Sam | Created | / |
| | | | | |
| | | | | |

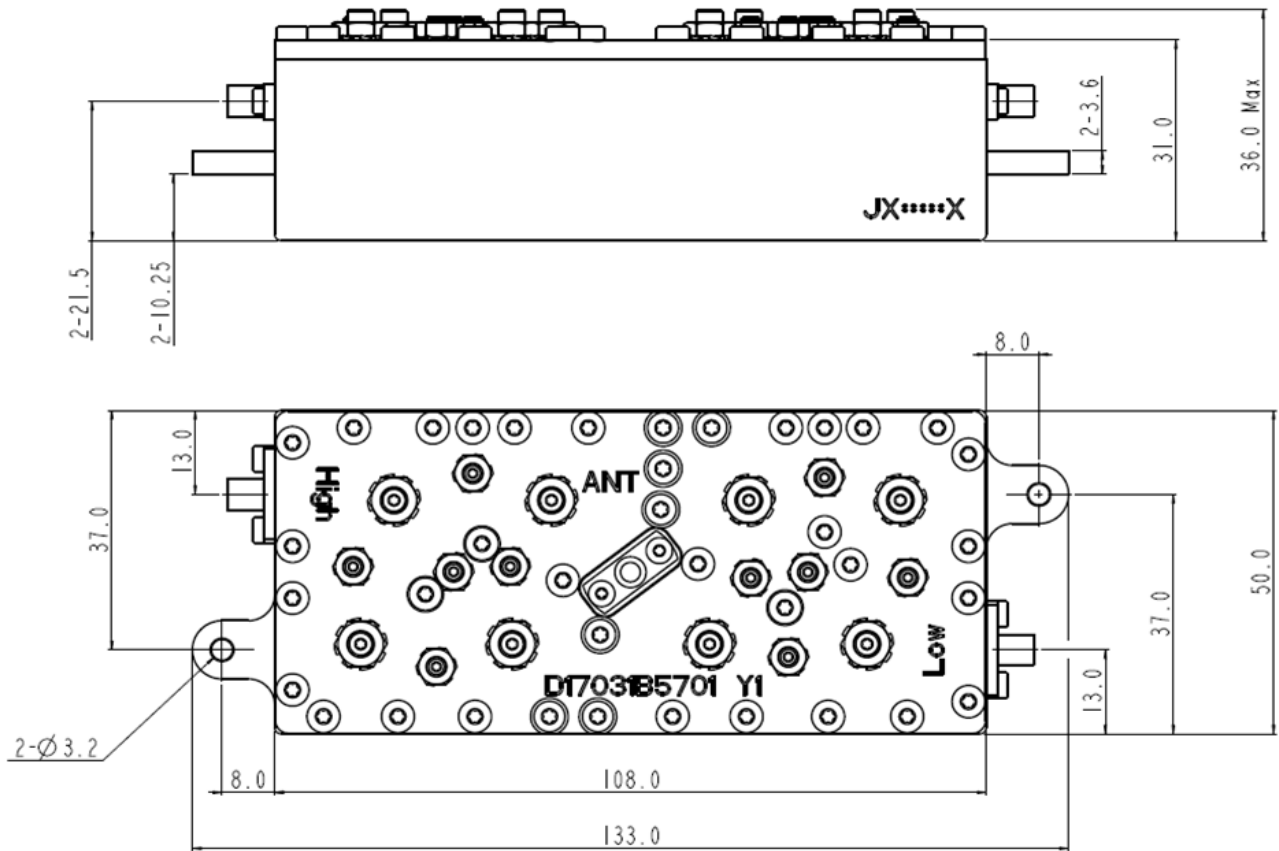
Electrical specification

| Parameter | Specification | |
|-------------------|----------------|----------------|
| | Low | High |
| Frequency range | 804-815MHz | 822-869MHz |
| Insertion loss | ≤2.5dB | ≤2.5dB |
| Bandwidth | 2MHz | 2MHz |
| Return loss | ≥20dB | ≥20dB |
| Rejection | ≥65dB@F0+≥9MHz | ≥65dB@F0-≤9MHz |
| Power | 100W | |
| Temperature range | -30°C to +70°C | |
| Impedance | 50Ω | |

Mechanical specification

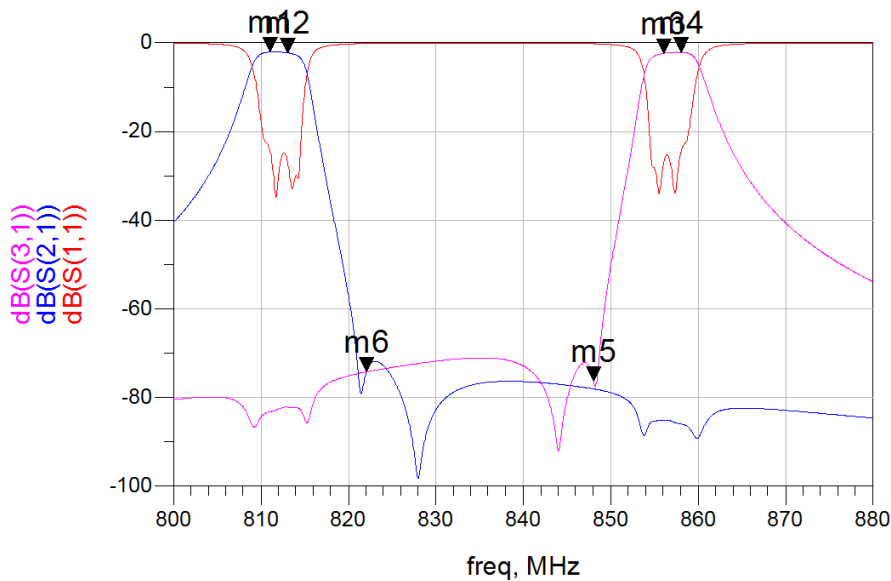
| Parameter | Specification |
|------------|---|
| Dimension | L x W x H: 108mm x 50mm x 31mm (36.0mm Max) |
| Connectors | SMB-Male |
| Finish | Silver |
| Notes | Material shall be RoHS 6/6 |

Outline



Simulation curve

| | | | |
|--|--|--|--|
| m1 freq=811.05MHz dB(S(2,1))=-2.0891 | m2 freq=813.05MHz dB(S(2,1))=-2.2740 | m3 freq=856.05MHz dB(S(3,1))=-2.3602 | m4 freq=858.05MHz dB(S(3,1))=-2.1588 |
|--|--|--|--|



m6
freq=822.05MHz
dB(S(2,1))=-74.1731

m5
freq=848.05MHz
dB(S(3,1))=-76.3879