

Cavity Duplexer

ATD804M869M12A

Revision record

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

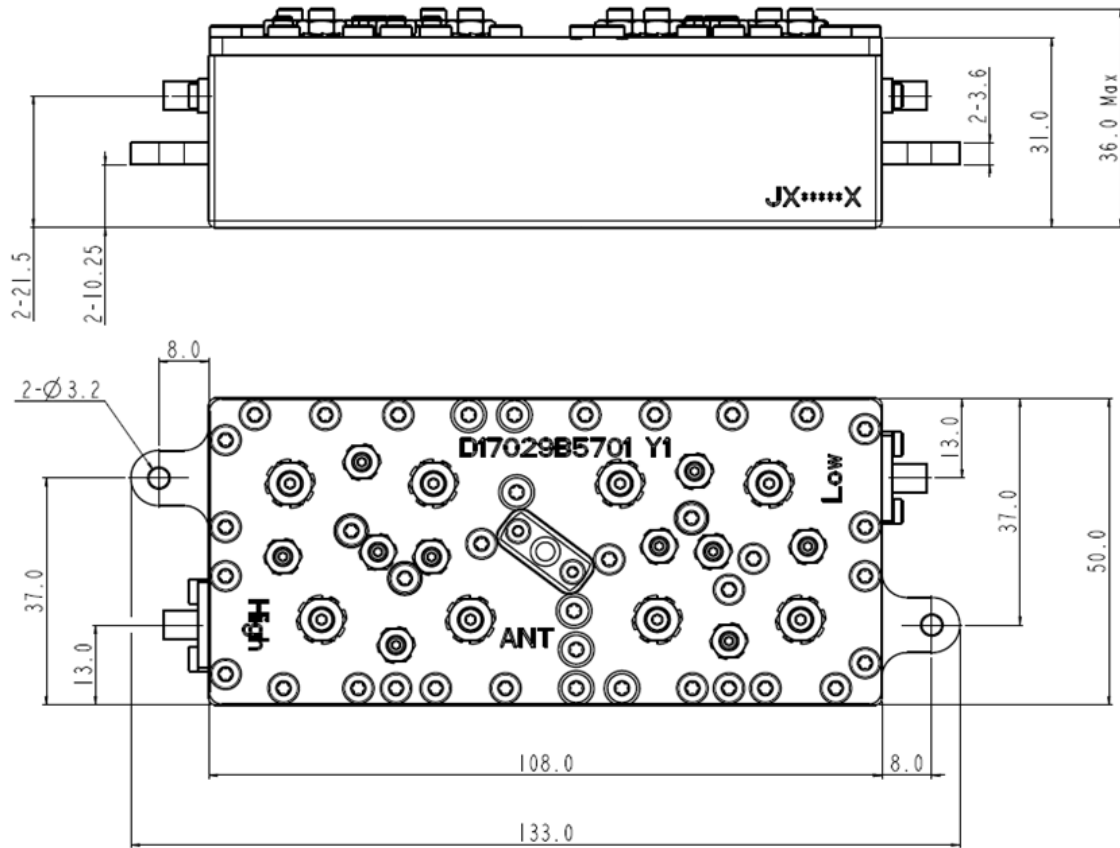
Electrical specification

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

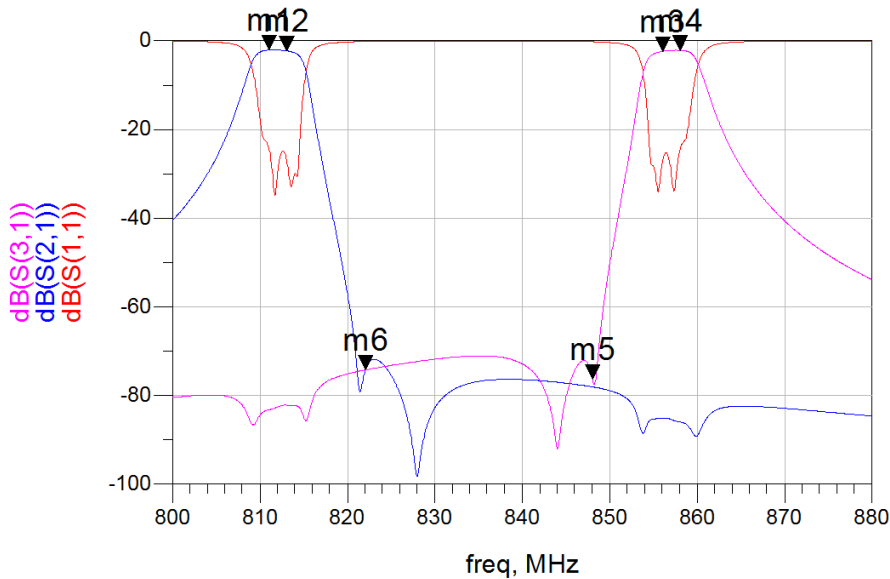
Parameter	Specification
Dimension	L x W x H: 108mm x 50mm x 31mm (36.0mm Max)
Connectors	SMB-Male
Finish	Silver
Notes	Material shall be RoHS 6/6

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

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