

Coaxial Cavity Band Pass Filter 870- 880MHz



Features

- High Rejection
- High power
- Specially designed for CDMA Repeater
- Conforms to Unicom technical standards

Typical Applications

- Wireless Infrastructure
- Military & Aerospace
- Test & Measurement

Electrical Specifications, $T_A = 25\text{ }^\circ\text{C}$

Parameters		Min.	Typ.	Max.	Units
Frequency Range		870		880	MHz
Insertion Loss			1.5	2.0	dB
Pass Band Ripple			0.8	1.0	dB
Return Loss			23	20	dB
Rejection	@ $f_0 \pm 7.5\text{MHz}$	40	43		dB
	@ $f_0 \pm 40\text{MHz}$	90	92		dB
Power Rating				50	W
Impedance		50			Ohms
Weight		32.30 Max.			Ounces
Input / Output Connectors		SMA-Female			
Material		Aluminum Alloy			
Finish		Black Paint			

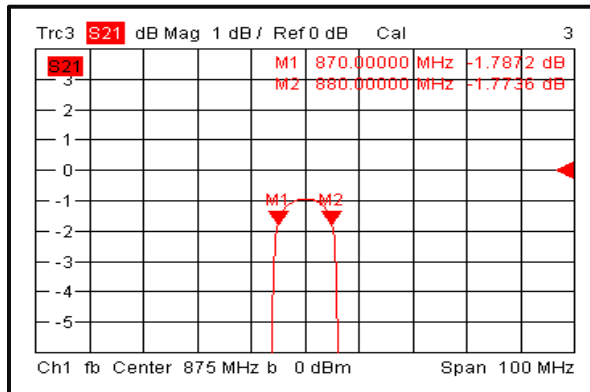
Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	-30°C~+55°C (Case Temperature)
Storage Temperature	-40°C~+85°C
Thermal Shock	-30°C → +55°C (5 Cycles / 10 hours)
Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
High Temperature Burn In	Temperature +55°C for 72 Hours
Shock	1. Weight >20g, 50g half sine wave for 11ms, Speed variation 3.44m/s 2. Weight <=20g, 100g Half sine wave for 6ms, Speed variation 3.75m/s 3. Total 18 times (6 directions, 3 repetitions per direction).
Altitude	Standard: 30,000 Ft (Epoxy Sealed Controlled Environment) Optional: Hermetically Sealed (60,000 ft. 1.0 PSI min)
Hermetically Sealed (Optional)	MIL-STD-883 (For Hermetically Sealed Units)

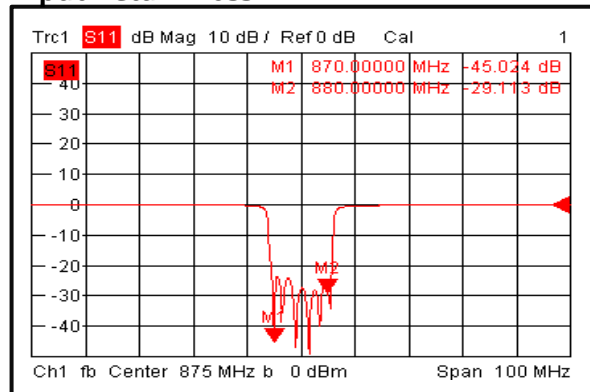
Coaxial Cavity Band Pass Filter 870-880MHz

Typical Performance Plots

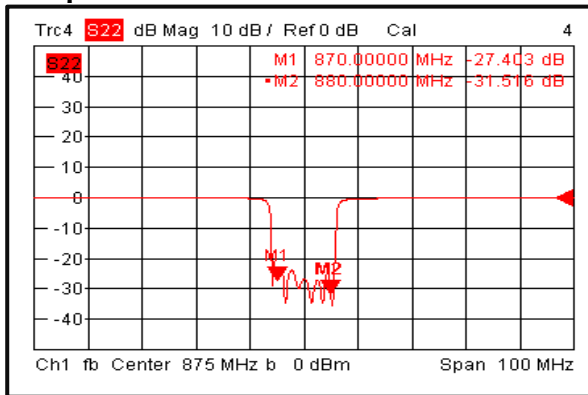
Insertion Loss



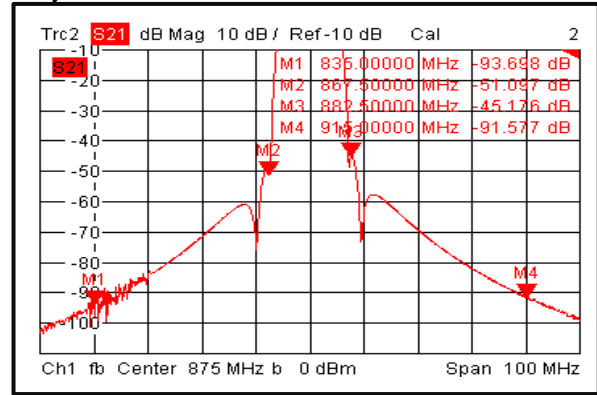
Input Return Loss



Output Return Loss



Rejection

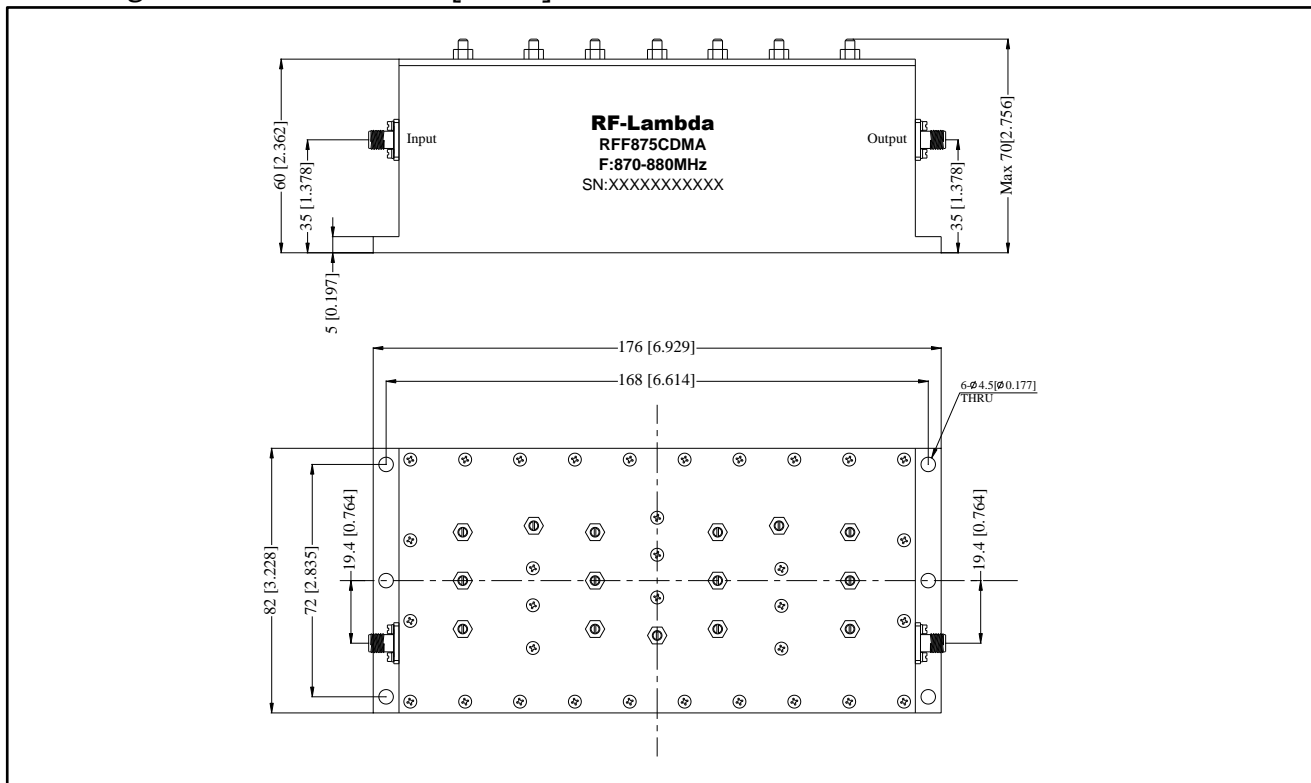


Outline Drawing:

All Dimensions in mm [inches]

Outline Tolerances ± 0.5 [0.02]

Mounting Holes Tolerances ± 0.2 [0.008]



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