



Cavity Filter

- ◆ High Rejection
- ◆ Low Insertion Loss
- ◆ Miniaturization
- ◆ Excellent Reliability
- ◆ Customization available

The HRT-BF(5835/40)-1294S is a cavity band pass filter. The pass band is 5815-5855MHz. It has excellent rejection $\geq 50\text{dB}$ @5720-5760MHz. It has a maximum insertion loss of 1.5dB. The HRT-BF(5835/40)-1294S has SMA-Female connectors.



Electrical Specifications			
Parameters	Units		Specifications
Center Frequency	MHz		5835
Pass Band Frequency	MHz		5815-5855
Insertion Loss	dB	Max	1.5
Pass Band Flatness	dB	Max	0.3
Return Loss	dB	Min	20
Group Delay	ns	Max	20
Group Delay Variation	ns	Max	5
Phase Matching	deg	Max	TBD
Rejection	$\geq 50\text{dB}$ @5720-5760MHz, $\geq 40\text{dB}$ @DC-5620MHz, $\geq 50\text{dB}$ @5955MHz		
Power Handling	10W cw max		

50 ohms Coaxial Cavity Band Pass Filter

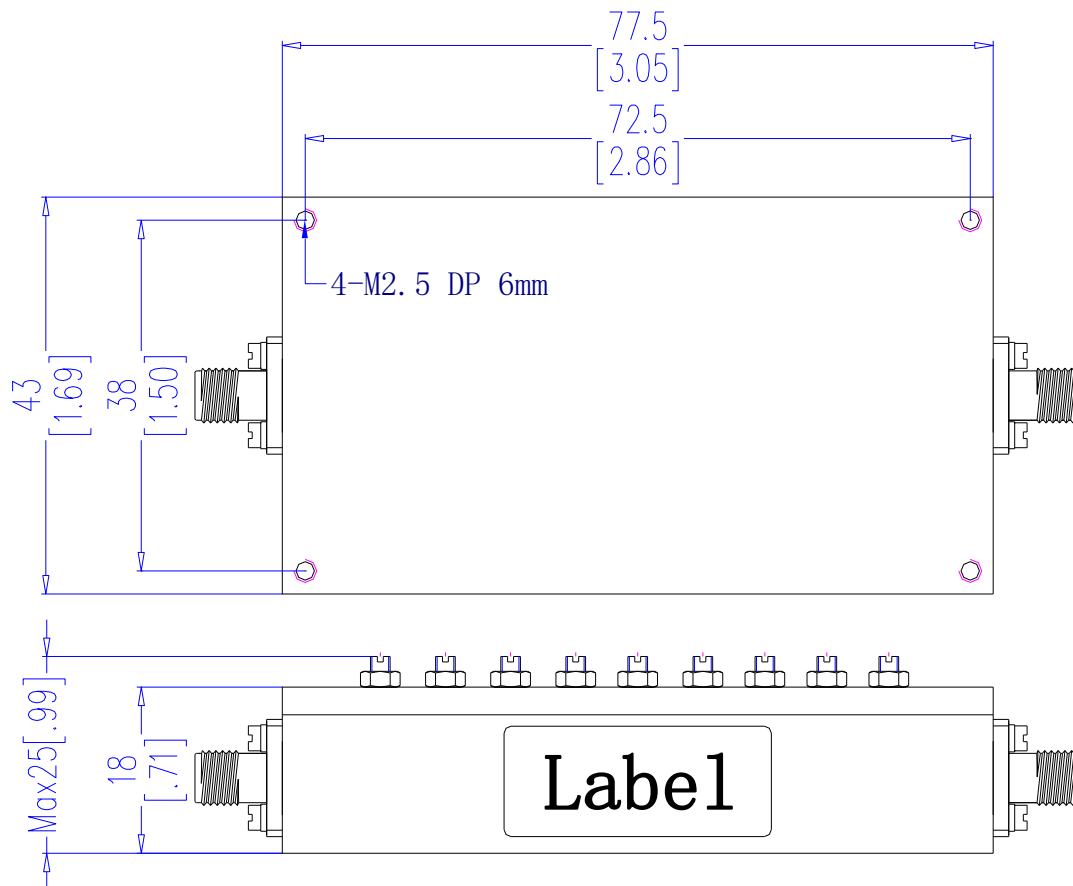
SN:2268-210309

Version: A0

Mechanical Specifications		Environmental Specification	
Parameter	Specification	Parameter	Specification
Input Connectors	SMA-Female (50Ω)	Operating Temp.	-40°C to +70°C
Output Connectors	SMA-Female (50Ω)	Storage Temp.	-55°C to +85°C
ROHS	Yes	Environment Class	TBD
Material	Aluminum (6061)	Altitude	30,000 ft.
Weight(Kg)	0.13		(Epoxy Sealed Controlled environment)
Surface Finish	Black Painted	Humidity	95%RH at 40°C
Shock	20G for 11msec half sine wave,3 axis both directions		
Note			

Outline Drawing:

All Dimensions in mm (inches)

 Outline Tolerances $\pm 0.3(0.012)$


Test Plot
