



### Cavity Filter

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

The HRT-BF(9370/160)-Q7S is a cavity band pass filter. The pass band is 9290-9450MHz. It has excellent rejection  $\geq 25\text{dB}@9240\text{MHz}$  and  $\geq 24\text{dB}@9500\text{MHz}$ . It has a maximum insertion loss of 2.0dB. The HRT-BF(9370/160)-Q7S has SMA-Female connectors.



### Electrical Specifications

Parameters	Units		Specifications
Center Frequency	MHz		9370
Pass Band Frequency	MHz		9290-9450
Insertion Loss	dB	Max	2.0
Pass Band Flatness	dB	Max	TBD
Return Loss	dB	Min	14
Group Delay Variation	ns	Max	TBD
Phase Matching	deg	Max	TBD
Rejection	$\geq 25\text{dBc}@9240\text{MHz}$ , $\geq 24\text{dBc}@9500\text{MHz}$		
Power Handling	+30dBm cw max		

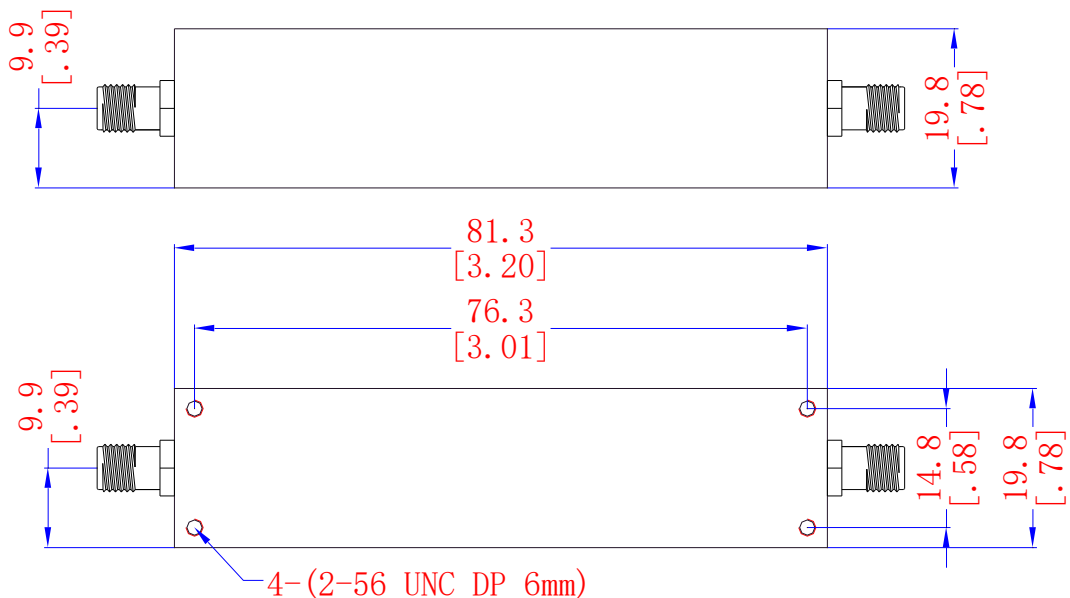
**50 ohms Coaxial Cavity Band Pass Filter**

SN:0399-120508    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)	TBD		(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**
