



Cavity Filter

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

The HRT-BF(4700/640)-Q9S is a cavity band pass filter. The pass band is 4380-5020MHz. It has excellent rejection $\geq 80\text{dB}@5250-5280\text{MHz}$. It has a maximum insertion loss of 1.0dB. The HRT-BF(4700/640)-Q9S has SMA-Female connectors.



Electrical Specifications			
Parameters	Units		Specifications
Center Frequency	MHz		4700
Pass Band Frequency	MHz		4380-5020
Insertion Loss	dB	Max	1.0
Pass Band Flatness	dB	Max	TBD
Return Loss	dB	Min	15
Group Delay	ns	Max	TBD
Group Delay Variation	ns	Max	TBD
Phase Matching	deg	Max	TBD
Rejection	$\geq 80\text{dB}@5250-5280\text{MHz}$		
Power Handling	25W cw max		

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)	0.24		(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 $\pm 0.3(0.012)$



