



Cavity Diplexers

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

The HRT-DX(1750/2350)-271SA is a cavity diplexer. The pass band is 1750-1850MHz and 2200-2500MHz. It has excellent isolation $\geq 70\text{dB}$ @ 1750-1850MHz and 2200-2500MHz. It has a maximum insertion loss of 1.0dB. The diplexer has SMA-Female 50ohms connectors.



Electrical Specifications

Parameters	Units		ANT-RX	ANT-TX
Pass Band Frequency	MHz		1750-1850	2200-2500
Insertion Loss	dB	Max	1.0	1.0
Ripple	dB	Max	TBD	TBD
Return Loss	dB	Min	15	15
Group Delay Variation	ns	Max	TBD	TBD
Phase Matching	deg	Max	TBD	TBD
Rejection	dB	Min	$\geq 60\text{dB}@1575\text{MHz}$, $\geq 60\text{dB}@2530\text{MHz}$	$\geq 60\text{dB}@1575\text{MHz}$
Isolation	$\geq 70\text{dB}@1750-1850\text{MHz}, 2200-2500\text{MHz}$			
Power Handling	30 W(Avg)			
Port Sign	Port 1: ANT ; Port 2: RX ; Port 3:TX			

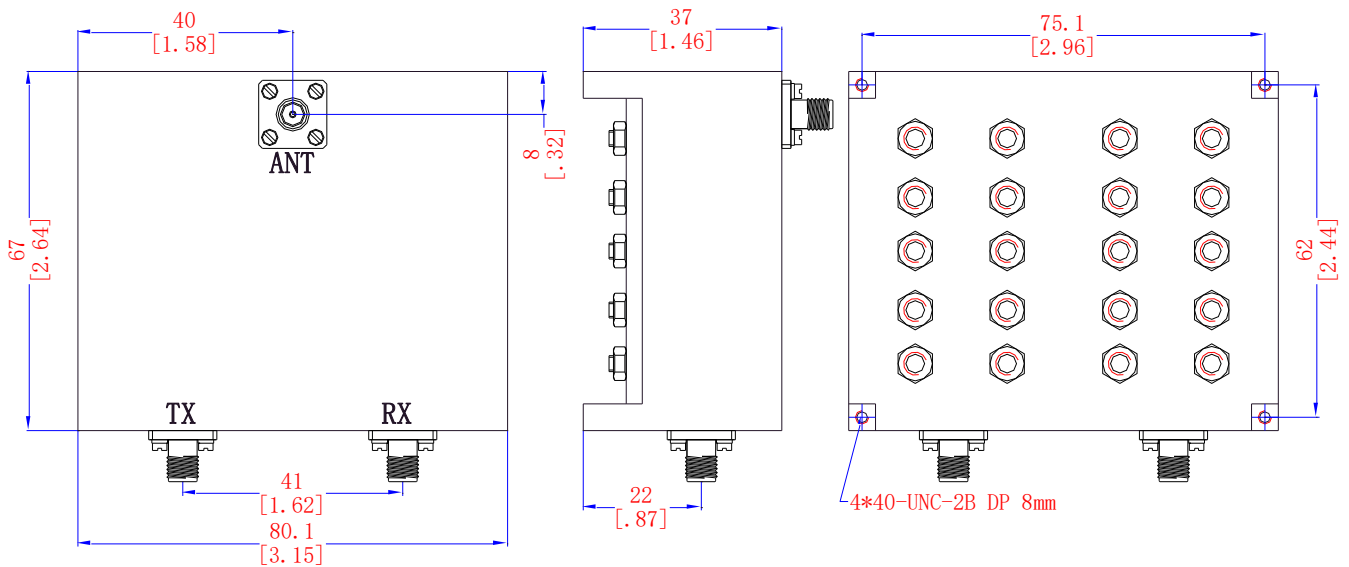
50 ohms Coaxial Cavity Diplexers

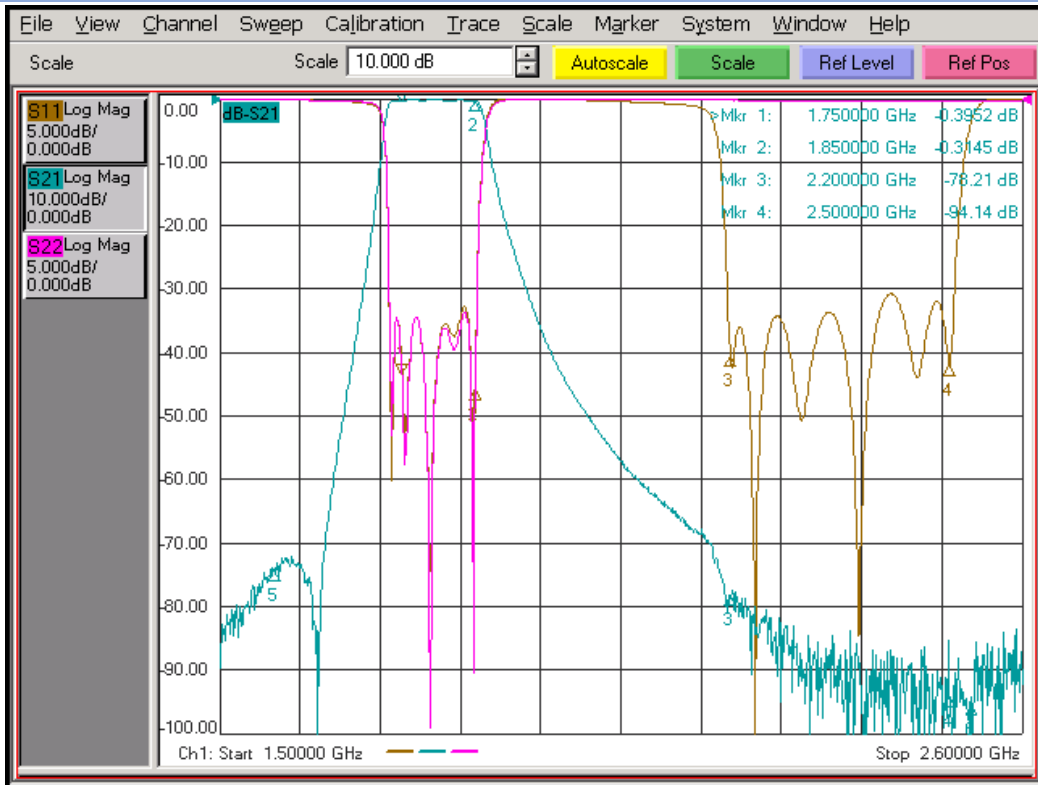
SN:1132-190909 Version: A0

Mechanical Specifications		Environmental Specification	
Parameter	Specification	Parameter	Specification
ANT Connector	SMA-Female (50Ω)	Operating Temp.	-40°C to +70°C
Rx and Tx Connectors	SMA-Female (50Ω)	Storage Temp.	-50°C to +90°C
ROHS	Yes	Environment Class	TBD
Material	Aluminum (6061)	Altitude	30,000 ft.
Weight(Kg)	0.3		(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

Test Plot
