



### Cavity Diplexers

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

The HRT-DX(455/465)-1423S is a cavity diplexer. The pass band is 452-457.475MHz and 462-467.475MHz. It has excellent isolation  $\geq 45\text{dB}$  @ 452-457.475MHz and 462-467.475MHz. It has a maximum insertion loss of 2.5dB. The diplexer has SMA-Female 50ohms connectors.



### Electrical Specifications

Parameters	Units		ANT-RX	ANT-TX
Pass Band Frequency	MHz		452-457.475	462-467.475
Insertion Loss	dB	Max	2.5	2.5
Ripple	dB	Max	0.5	0.5
Return Loss	dB	Min	15	15
Group Delay Variation	ns	Max	TBD	TBD
Phase Matching	deg	Max	TBD	TBD
Rejection	dB	Min	TBD	TBD
Isolation	$\geq 45\text{dB}$ @ 452-457.475MHz, 462-467.475MHz			
Power Handling	60 W(Avg)			
Port Sign	Port 1: ANT ; Port 2: RX ; Port 3:TX			

**50 ohms Coaxial Cavity Diplexers**

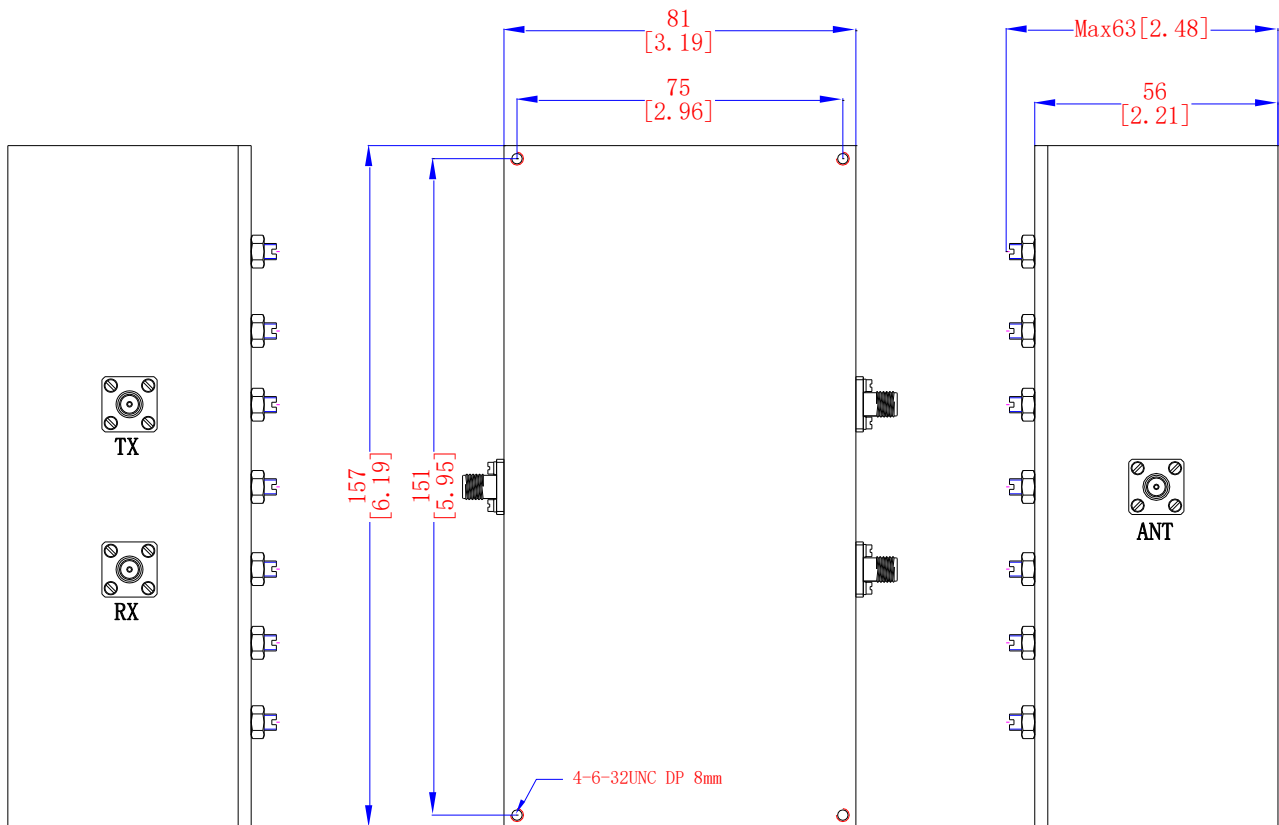
SN:2404-210914 Version: A0

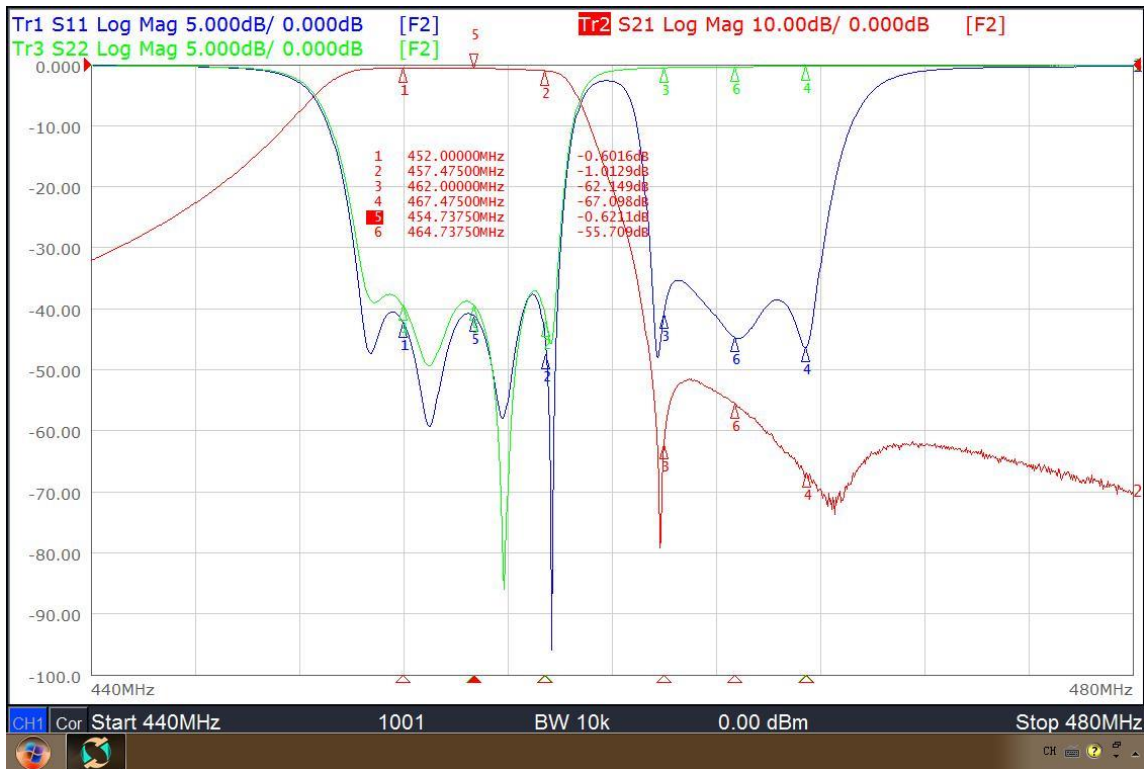
Mechanical Specifications		Environmental Specification	
Parameter	Specification	Parameter	Specification
ANT Connector	SMA-Female (50Ω)	Operating Temp.	-40°C to +70°C
Rx and Tx Connectors	SMA-Female (50Ω)	Storage Temp.	-50°C to +90°C
ROHS	Yes	Environment Class	TBD
Material	Aluminum (6061)	Altitude	30,000 ft.
Weight(Kg)	0.8		(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 ±0.3(0.012)



**Test Plot**

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