

DC-67-110GHz Continuous Diplexer

DC-67-110GHz/1.0mm Female/WR-10

Model: TMDX-67G110G-10-1.0

TMDX-67G110G-10-1.0 is a continuous Diplexer that operates from DC to 110 GHz. The diplexer offers a typical insertion loss of 2 dB. All ports exhibit good impedance matching for transmit- receive duplexing applications across the operating band. The diplexer is configured as an inline package with 1.0mm coaxial connectors and WR-10 waveguides and UG-387/U-M anti-cocking flanges.

Features:

- Frequency range: DC-110GHz
- Low Insertion Loss
- High Isolation
- Compact Package

Applications:

- Test Lab
- Sub-assemblies
- Test Instrumentations

Electrical Characteristics:

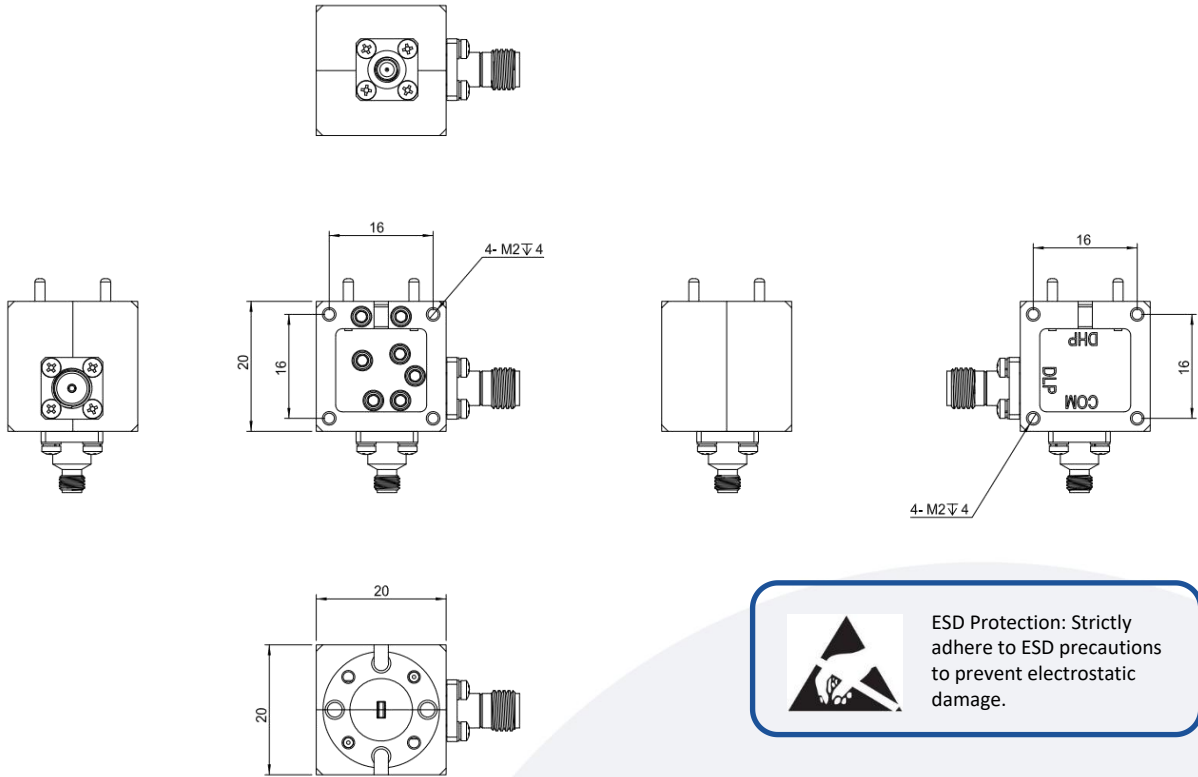
Parameter	Min	Typ	Max	Min	Typ	Max	Units
	RF_DLP			RF_DHP			
Frequency range	DC		67	67		110	GHz
Insertion Loss		2			2		dB
Port Isolation		30dB @80GHz			30dB @55GHz		dB
Input Return Loss		-10			-10		dB
Coaxial-port Impedance		50			50		Ohms

Mechanical Specifications:

Parameter	Value	Units
Common connector	1.0mm Female	
Low Band connector	1.0mm Female	
High Band connector	WR-10/UG-387/U	
Size	20*20*20	mm
Material	Brass	
Finish	Gold plated	

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



Environmental Conditions:

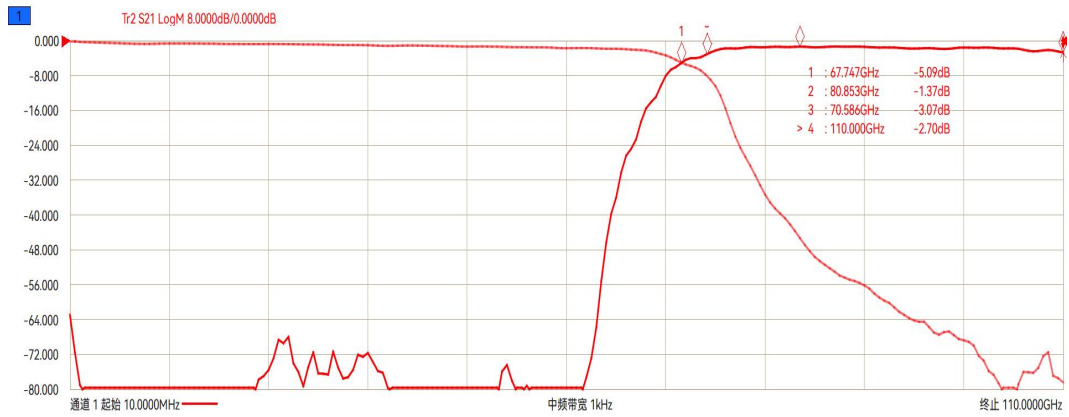
Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	°C
Non-operating Temperature	-55		+125	°C
相Relative humidity		95		%
Altitude	10,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Base Number	Description	Revision
TMDX-67G110G-10-1.0	3-port continuous diplexer , DC-67-110GHz, Insertion loss: 2dB(type), Return loss: 10dB(type)	Rev.1.0

Typical Performance Data:

Insertion Loss vs Frequency



Return Loss vs Frequency

