

DC-18-30GHz Continuous Diplexer

DC-18-30GHz/1.85 Female

Model: TMDX-18G30G-1.85

TMDX-18G30G-1.85 is a continuous Diplexer that operates from DC to 30 GHz. The diplexer offers a typical insertion loss of 1.5 dB, with an insertion loss of 5dB at the channel crossover point, and a typical return loss of 10 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 1.85 mm coaxial connectors at all ports.

Features:

- Frequency range: DC-30GHz
- Low Insertion Loss
- High Isolation
- Compact Package

Applications:

- Test Lab
- Sub-assemblies
- Test Instrumentations

Electrical Characteristics:

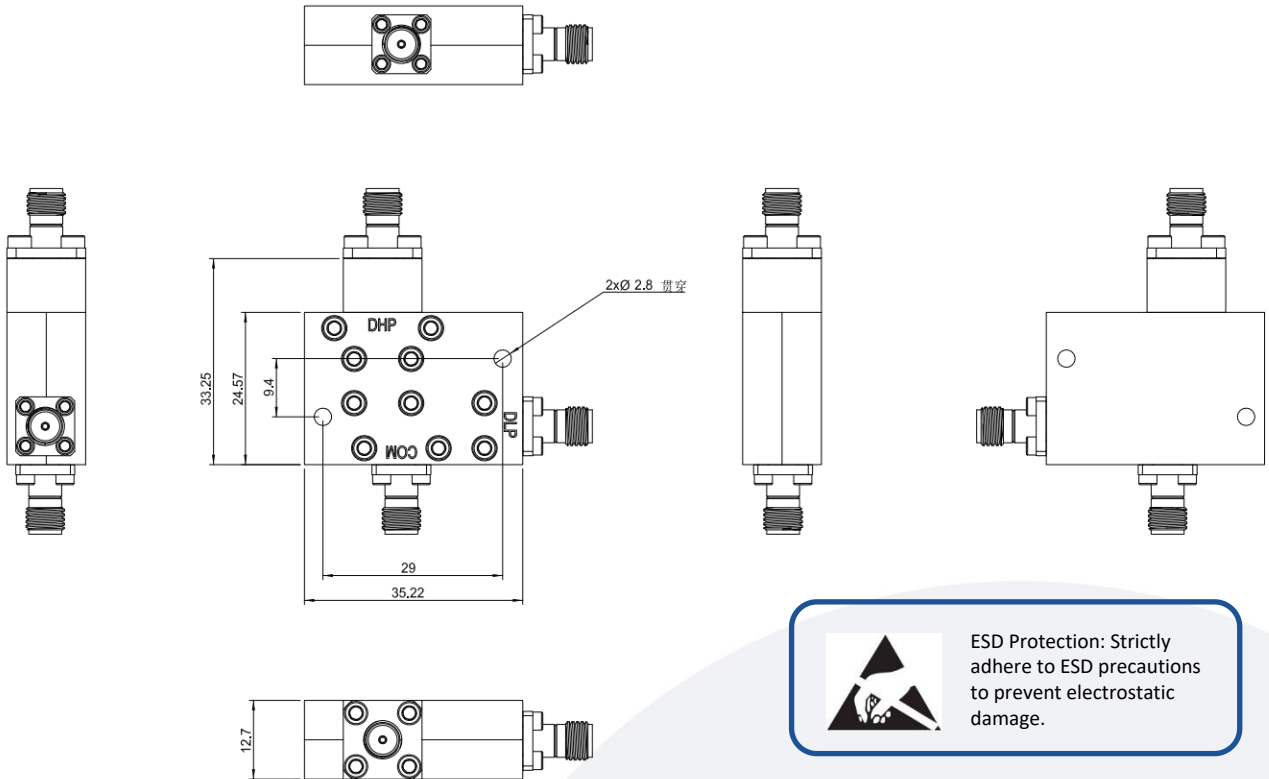
Parameter	Min	Typ	Max	Min	Typ	Max	Unit
	RF_DLP			RF_DHP			
Frequency range	DC		18	18		30	GHz
Insertion Loss		1.5			0.9		dB
Port Isolation		30dB @20GHz			30dB @16GHz		dB
Input Return Loss		-10			-10		dB
Impedance		50			50		Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	1.85 Female	
Size	33.25*35.22*12.7	mm
Material	Aluminum	
Finish	Oxidation	

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

Environmental Conditions:

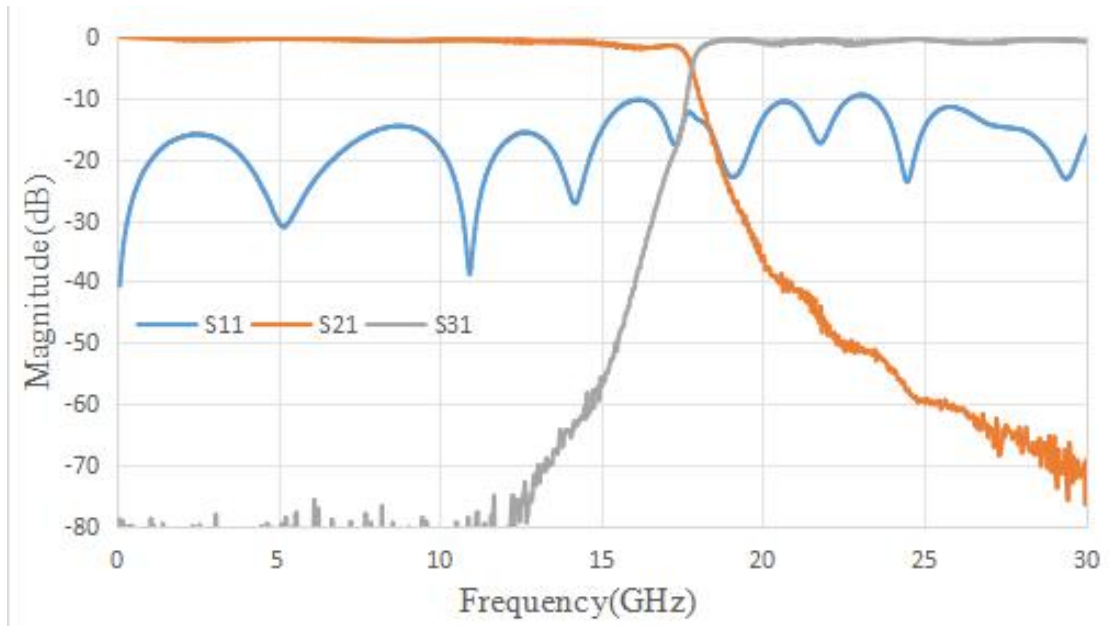
Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	10,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Base Number	Description	Revision
TMDX-18G30G-1.85	3-port continuous diplexer , DC-18-30GHz, Insertion loss: 1.5dB(type), Return loss: 10dB(type)	Rev.1.0

Typical Performance Data:

Insertion Loss vs Frequency



Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.