

DC-30-45GHz Continuous Diplexer

DC-30-45GHz/1.85mm Female

Model: TMDX-30G45G-1.85

TMDX-30G45G-1.85 is a continuous Diplexer that operates from DC to 45 GHz. The diplexer offers a typical insertion loss of 1.5 dB, with an insertion loss of 4.5 dB at the channel crossover point, and a typical return loss of 11 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 1.85mm coaxial connectors at all ports.

Features:

- Frequency range: DC-45GHz
- Low Insertion Loss
- High Isolation
- Compact Package

Applications:

- Test Lab
- Sub-assemblies
- Test Instrumentations

电气特性 Electrical Characteristics:

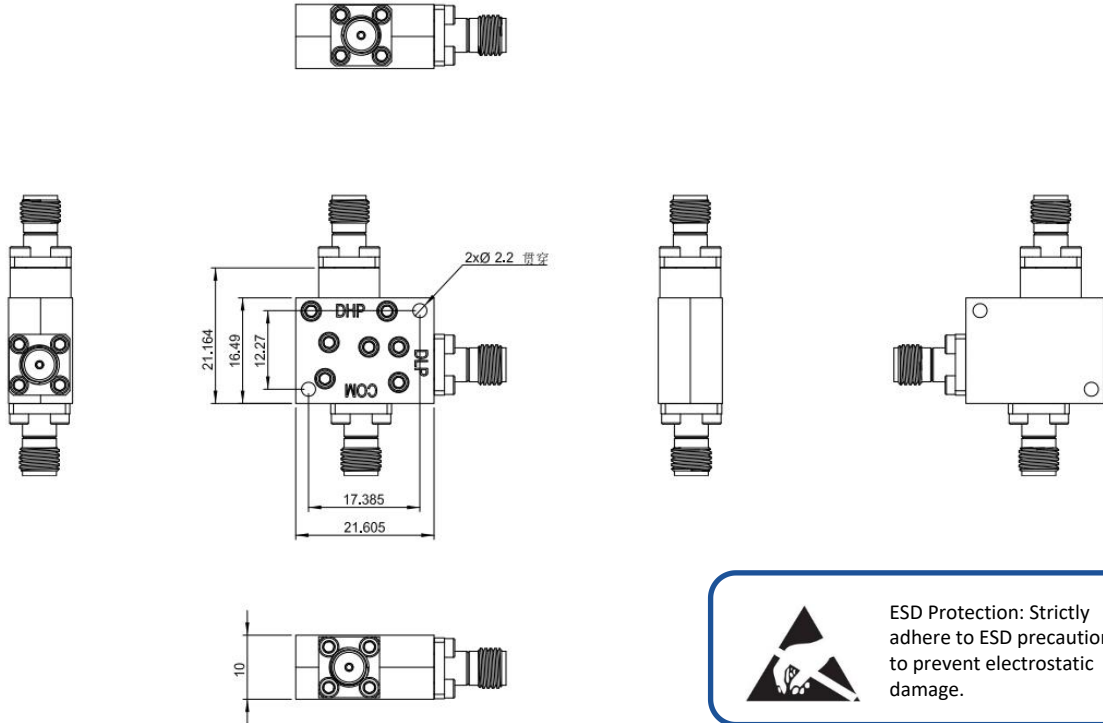
参数 Parameter	Min	Typ	Max	Min	Typ	Max	单位 Units
	RF_DLP			RF_DHP			
频率范围 Frequency range	DC		30	30		45	GHz
插损 Insertion Loss		1.5			0.8		dB
端口隔离 Port Isolation		30dB @26GHz			30dB @34GHz		dB
输入回波损耗 Input Rurturn Loss		-13			-11		dB
阻抗 Impedance		50			50		Ohms

机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	1.85mm Female	
尺寸 Size	21.2*21.6*10	mm ³
材质 Material	Aluminum	
表面处理 Finish	Oxidation	

外形图 Outline Drawing:

Unit:mm; Tolerance:±0.1mm



温度环境 Environmental Conditions:

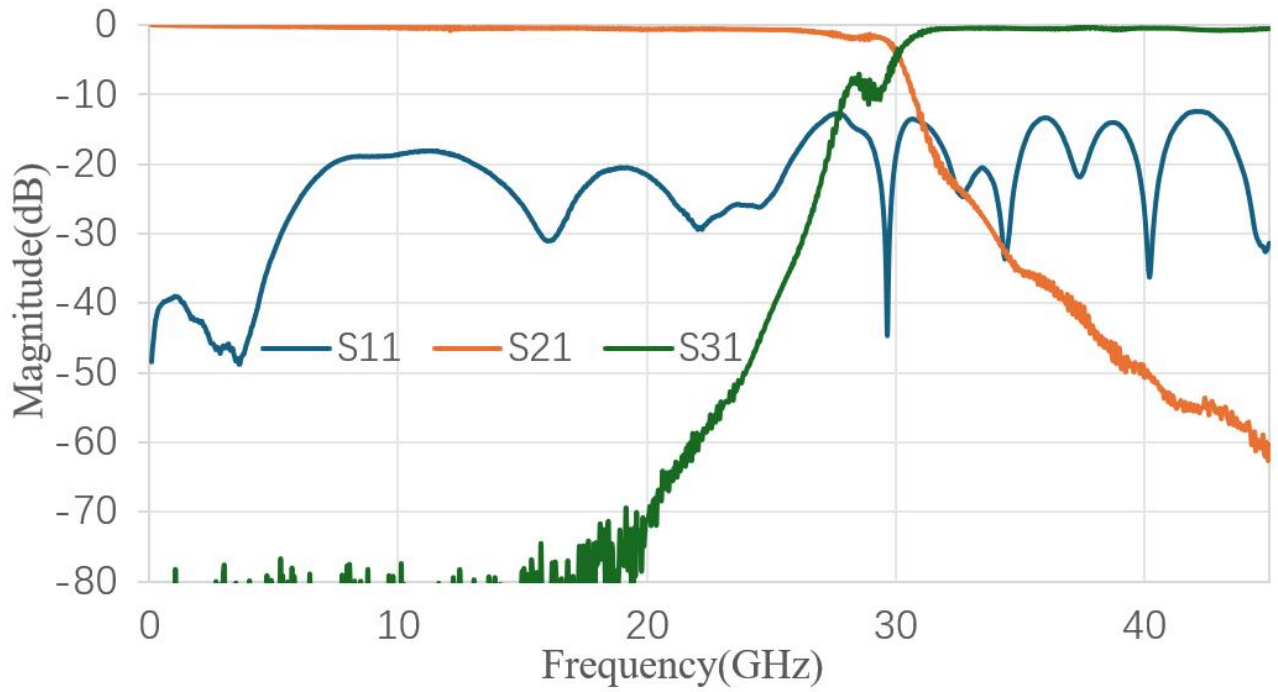
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	10,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc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

订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TMDX-30G45G-1.85	3-port continuous diplexer , DC-30-45GHz, Insertion loss: 1.5dB(typ), Return loss: 11dB(typ)	Rev.1.0

典型曲线 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.