泰莱微波
Talent Microwave

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Waveguide Faraday Isolator

140-220GHz/3.8dB,Insertion Loss/18dB,Isolation Model: TLI-140220-05

The TLI-140220-05 s a waveguide faraday isolator that operates from 140 to 220 GHz.The isolator offers 18 dB minimum isolation and 3.5 dB maximum insertion loss. The input and output port configuration offers an inline structure with WR-5.1 waveguides and UG-387/U-M anti-cocking flanges.

Features:

- Frequency range: 140-220GHz
- High Isolation
- Compact Form Factor
- Resistant to Stray Magnetic Fields

Applications:

- Test Lab
- Sub-assemblies
- Test Instrumentations

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range	140		220	GHz
插损 Insertion Loss			3.5	dB
隔离 Isolation	18			dB
驻波 VSWR			1.55	:1
方向 Direction		1→2		

机械特性 Mechanical Specifications:

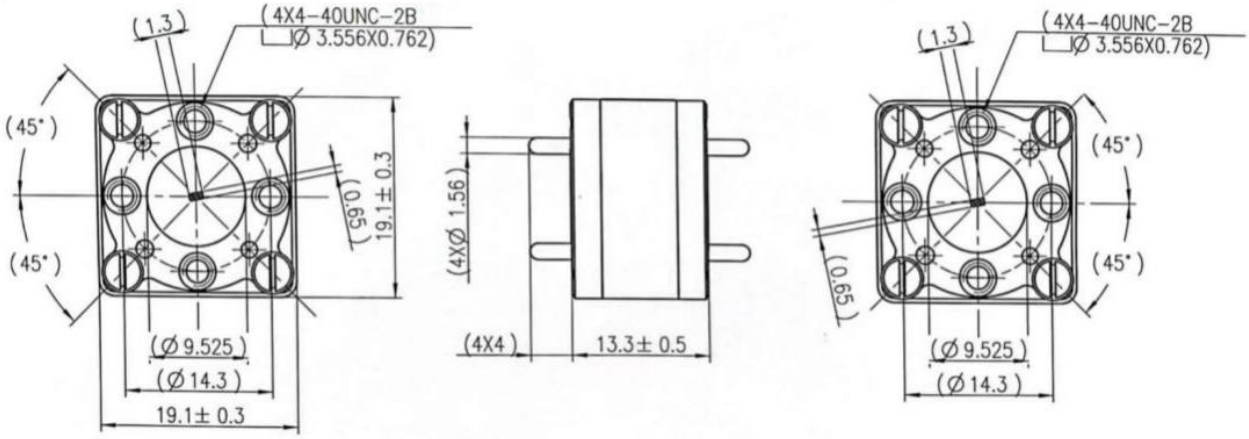
参数 Parameter	指标 Value	单位 Units
工作温度 Operating Temperature	25	℃
输入/输出接口 Input /Output Connector	WR-5.1/UG-387/U	

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外形图 Outline Drawing:

Unit:mm; Tolerance:±0.1mm



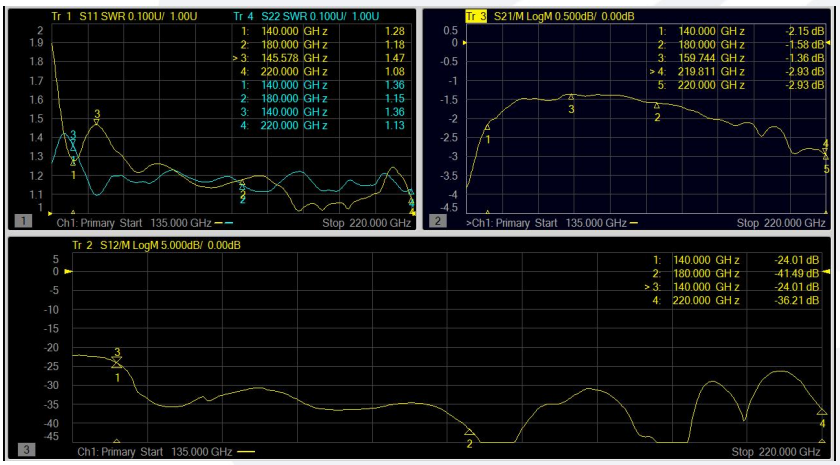
ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TLI-140220-05	Waveguide Faraday Isolator, 140-220GHz, Insertion loss: 3.5dB, Port Isolation: 18dB	Rev.1.0

典型曲线 Typical Performance Data:

VSWR&Insertion Loss&Isolation 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.