泰莱微波 Talent Microwave

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Coaxial Isolator

8-12GHz/30W,Power Handling

Model: TLI8G12G-30W

The TLI8G12G-30W is a coaxial isolator designed to operate from 8GHz to 12GHz. The coaxial isolator offers minimum 17 dB isolation and 1.3:1 maximum VSWR. The input and output port configuration offers coax adapter structure with SMA female.

Features:

- Frequency range: 8-12GHz
- Isolation: 17dB min
- Insertion Loss: 0.5dB Max
- 50 Ohm Matched Input / Output

Applications:

- Communication Systems
- Laboratory test

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range	8		12	GHz
插损 Insertion Loss@25℃			0.5	dB
插损 Insertion Loss@-30~+70℃			0.5	dB
隔离度 Isolation@25℃	17			dB
隔离度 Isolation@-30~+70℃	16			dB
驻波 VSWR@25℃			1.3	:1
驻波 VSWR@-30~+70℃			1.35	:1
耐功率 Power handling		30		W
反射功率 Reverse Power		30		W
方向 Direction	1→2			
阻抗 Impedance	50			Ohms

机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
操作温度 Operating Temerature	-30 To +70	℃
输入/输出接口 Input /Output Connector	SMA Female/SMA Female	
尺寸 Size	21*22.5*15	mm

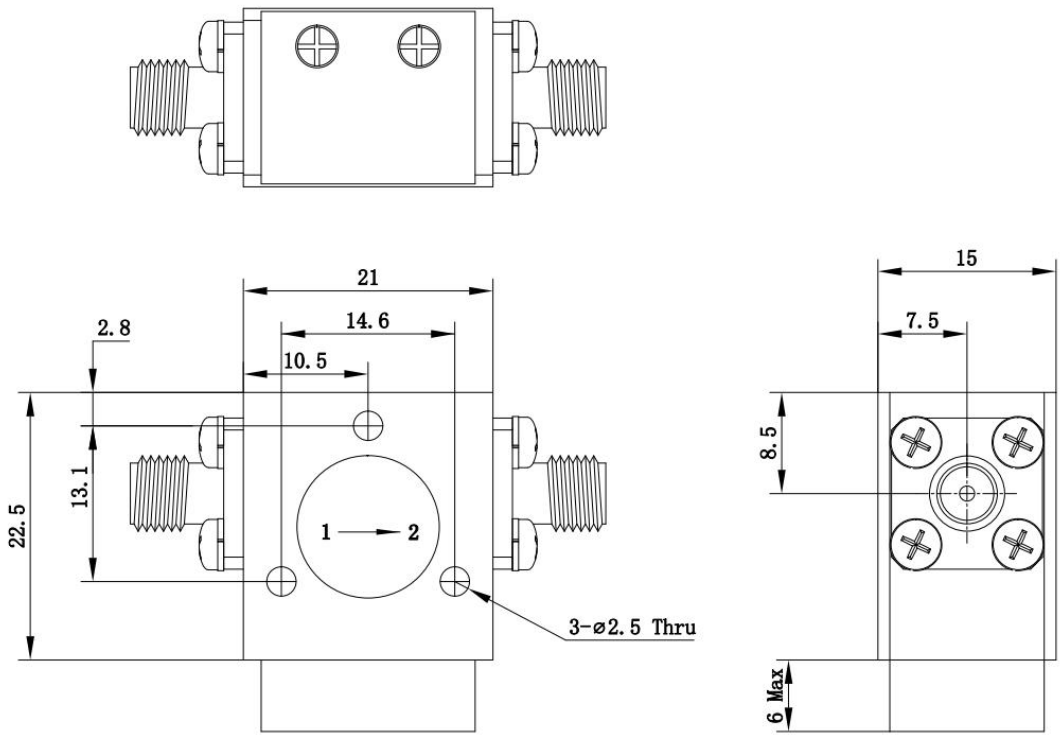
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绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
输入功率 RF Input Power	30 W
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

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
TLI8G12G-30W	Coaxial Isolator, 8-12GHz,Isolation: 17dB Min	Rev.1.0