

Power Limiter

DC-40GHz/2W, Power Handling

Model: TLMTDC40G-33-29

The TLMTDC40G-33-29 is a broadband limiter product. This limiter has an operating frequency range that can cover DC-40 GHz and features stable performance. It boasts a relatively high level of electrostatic discharge (ESD) protection capability.

Features:

- Frequency range: DC-40 GHz
- RF Power Handling: 2W(CW)
- Limiting power: 29 dBm
- Low Insertion Loss
- High level ESD protection
- 50 Ohm Matched Input / Output

Applications:

- Communication receiver
- Laboratory test
- Sensor radar

电气特性 Electrical Characteristics:

| 参数 Parameter | Min | Typ | Max | 单位 Units |
|---------------------------|--------|-----|-----|----------|
| 频率范围 Frequency range | DC-40 | | | GHz |
| 插损 Insertion Loss | | 1 | | dB |
| 限幅电平 Limiting power | | 29 | | dBm |
| 输入回波损耗 Input Return Loss | | -18 | | dB |
| 输出回波损耗 Output Return Loss | | -18 | | dB |
| 耐功率 Power handling | 2W(CW) | | | |
| 阻抗 Impedance | 50 | | | Ohms |

机械特性 Mechanical Specifications:

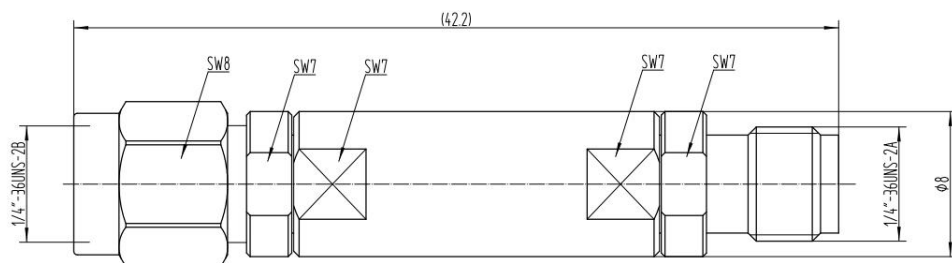
| 参数 Parameter | 指标 Value | 单位 Units |
|---------------------------------|---------------------------|----------|
| 输入/输出接口 Input /Output Connector | 2.92mm Male/2.92mm Female | |
| 长度 Length | 42.2 | mm |

绝对最大值 Absolute Maximum Ratings:

| 参数 Parameter | 指标 Value |
|------------------------------|----------------------|
| 输入功率 RF Input Power | +33 dBm |
| ESD灵敏度 ESD sensitivity (HBm) | Class 0, passed 150V |

外形图 Outline Drawing:

Unit:mm



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

温度环境 Environmental Conditions:

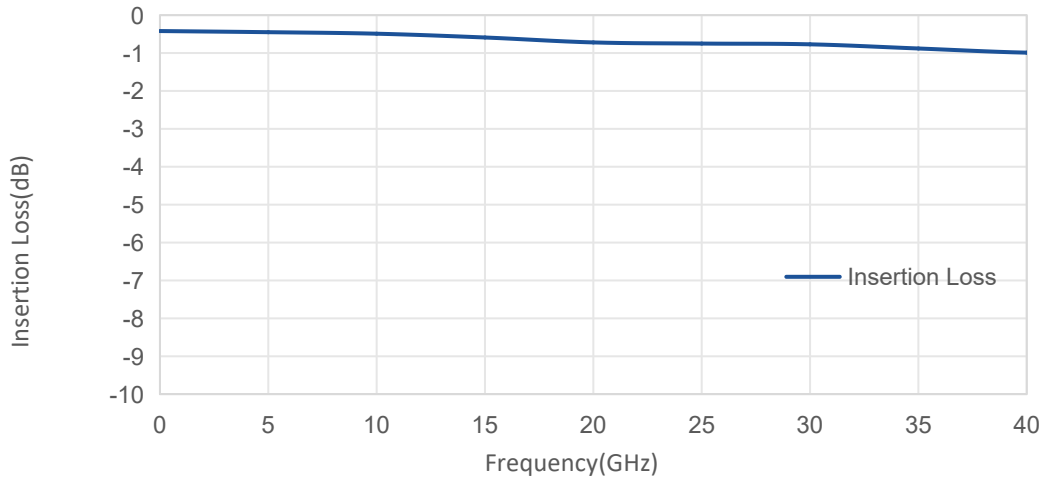
| 参数 Parameter | Min | Typ | Max | 单位 Units |
|------------------------------------|---|-----|------|----------|
| 操作温度 Operating Temperature | -45 | | +85 | °C |
| 存储温度 Non-operating Temperature | -55 | | +125 | °C |
| 相对湿度 Relative humidity | | 95 | | % |
| 海拔 Altitude | 10,000 | | | feet |
| 震动 Shock / 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:

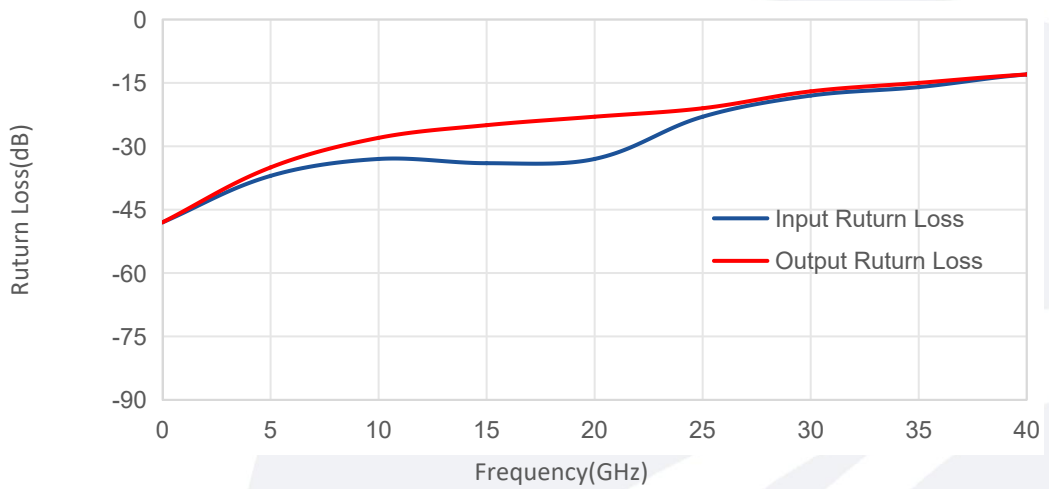
| 标准型号 Base Number | 描述 Description | 版本号 Revision |
|------------------|--|--------------|
| TLMTDC40G-33-29 | Power Limiter, DC-40GHz, Limiting power:29 dBm, High level ESD protection. | Rev.1.1 |

典型曲线 Typical Performance Data:

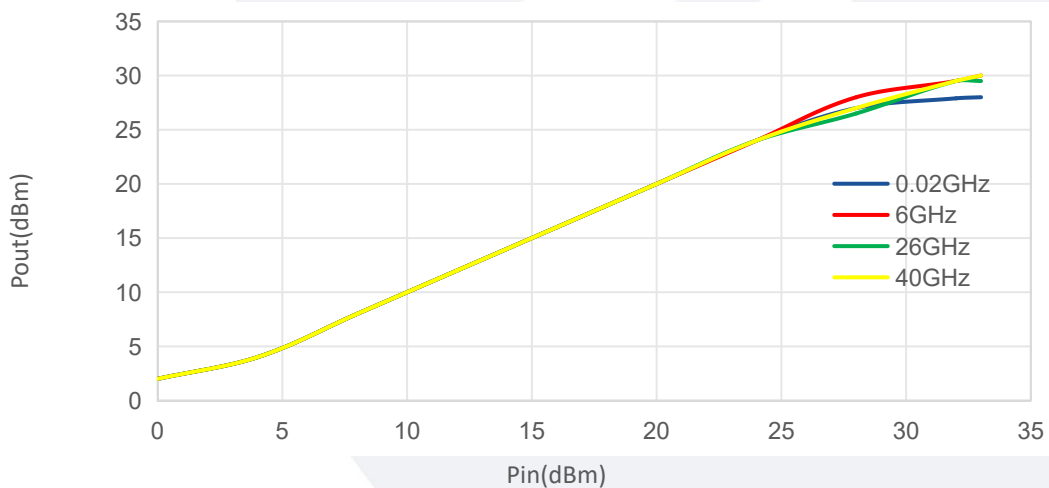
Insertion Loss vs Frequency



Return Loss vs Frequency



Pout vs Pin



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.