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# Cryogenic RF Choke

## 3MHz-10GHz /50V DC/SMA

## TLBT-3M10G-50-SS-Cryo

TURBT-3M10G50SSCryo is a cryogenic RF choke that operates from 3MHz to 10 GHz and chock path is DC-500KHz. The cryogenic RF choke offers a typical ruturn loss of -15 dB. The cryogenic RF choke can handle up to +50VDC/600mA bias voltage. The all ports are equipped with SMA female connectors.

### Features:

- Ultra Wide Band:3MHz-10GHz
- Low Insertion Loss
- High Voltage
- High Current Capacity
- Operation to 10mK

### Applications:

- Test Lab
- Sub-assemblies
- System Integrations

### 电气特性 Electrical Characteristics:

| 参数 Parameter | Min | Typ | Max | 单位 Units |
|---|---|---|---|---|
| 频率范围 Frequency range | RF port: 3MHz-10GHz | | | |
| | DC port: DC-500KHz | | | |
| 回波损耗 Ruturn Loss | | -15 | | dB |
| 隔离 Isolation | | 55 | | dB |
| 直流电压 DC Voltage | | | 50 | V DC |
| 直流电流 DC Current | | 600 | | mA |

### 机械特性 Mechanical Specifications:

| 参数 Parameter | 指标 Value | 单位 Units |
|---|---|---|
| 射频输入/输出接口 RF Input /Output Connector | SMA Female/SMA Female | |
| 直流接口 DC Connector | SMA Female | |
| 表面处理 Finish | Gold plated | |

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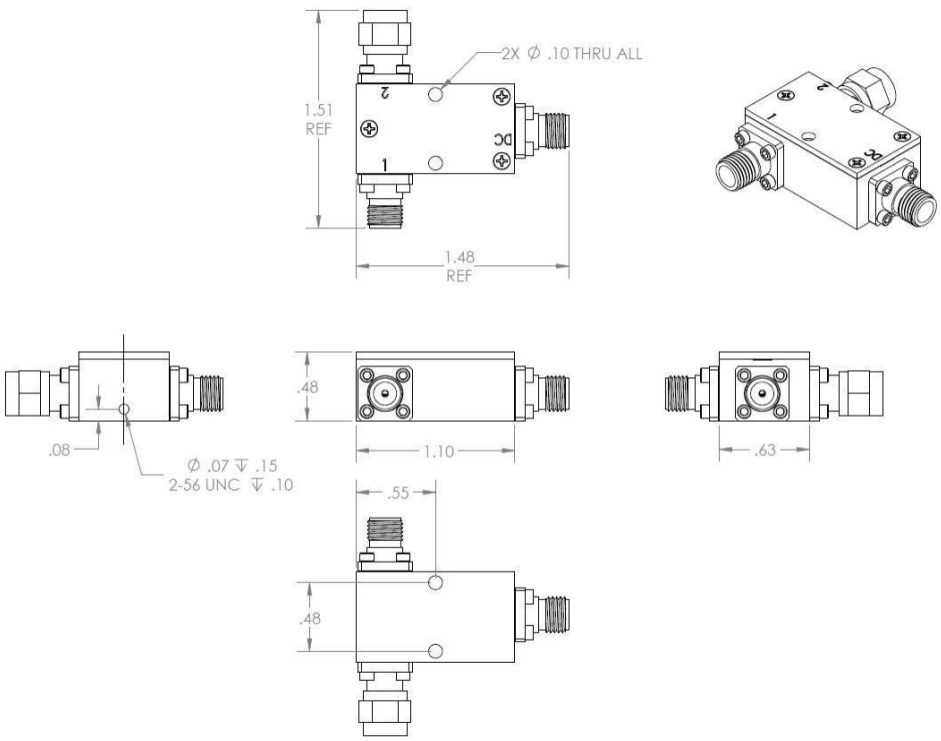
## 绝对最大值 Absolute Maximum Ratings:

| 参数 Parameter | 指标 Value |
|---|---|
| 供电偏置电压 Supply Bias Voltage | +50 V |
| ESD灵敏度 ESD sensitivity (HBm) | Class 0, passed 150V |

## 外形图 Outline Drawing:

Unit:Inch




## 原理框图 Block Diagram:

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## 温度环境 Environmental Conditions:

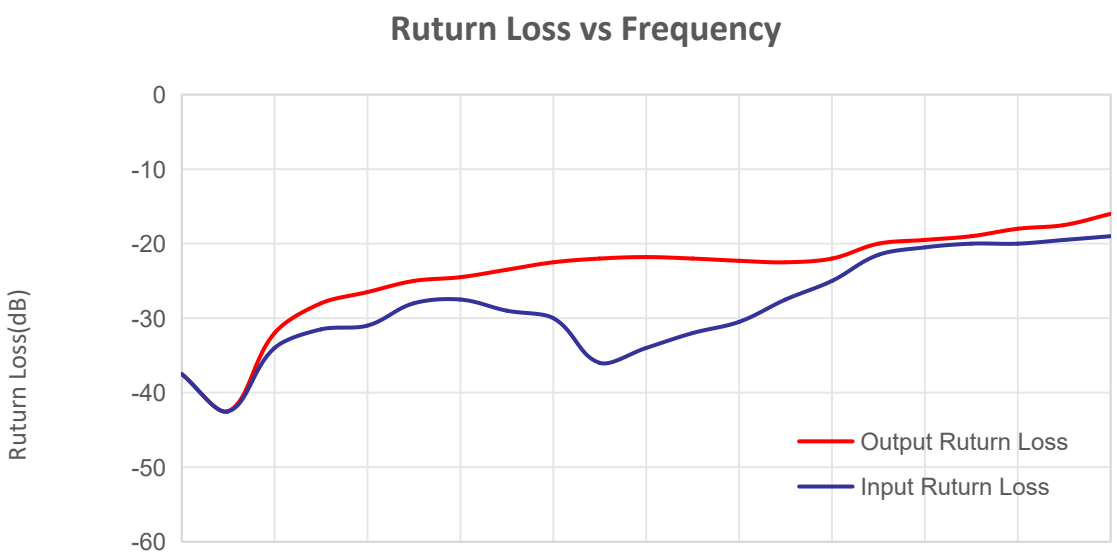
| 参数 Parameter | Min | Typ | Max | 单位 Units |
|---|---|---|---|---|
| 操作温度 Operating Temperature | -45 | | +85 | ℃ |
| 存储温度 Non-operating Temperature | -55 | | +125 | ℃ |
| 相对湿度 Relative humidity | | 95 | | % |
| 海拔 Altitude | 10,000 | | | feet |
| 震动 Shock / Vibration(MIL-STD-810F) | 25g rms (15 degree 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 Desciption | 版本号 Revision |
|---|---|---|
| TURBT-3M10G50SSCryo | Cryogenic RF Choke<br>SMA,3MHz-10GHz,+50V | Rev.1.1 |

**Notes:**
1. All data taken @ +23° C unless otherwise specified.
2. Dimensionsandspecificationsmay be changed withoutprior notice.

## 典型曲线 Typical Performance Data:



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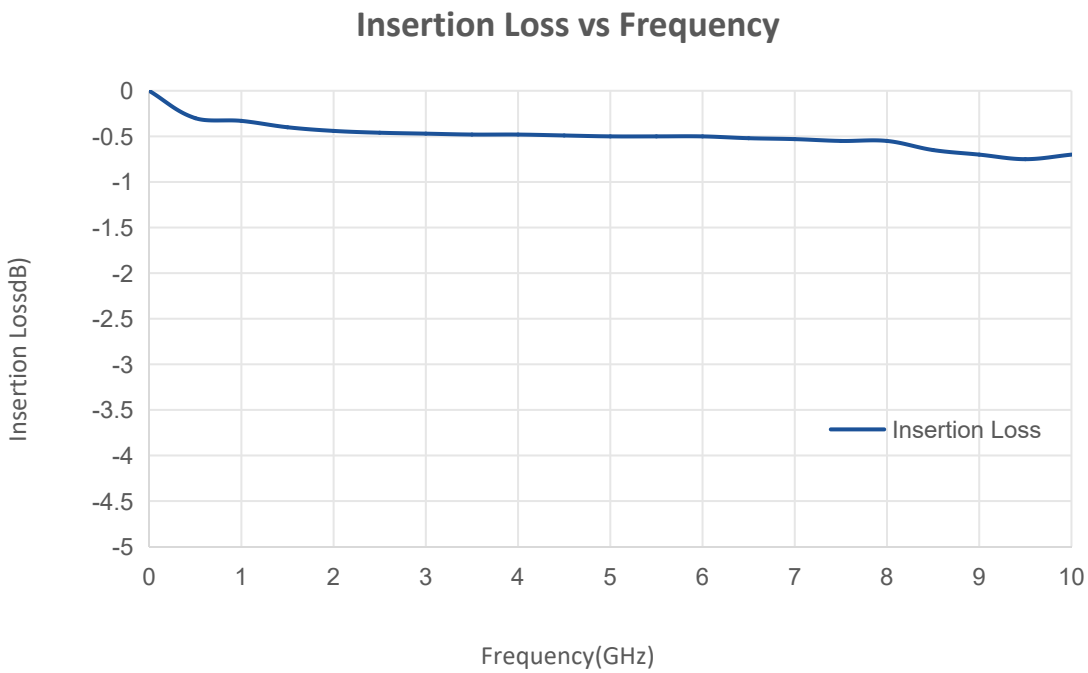


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.