

## Coaxial Low-pass Filter

### DC-50 MHz/SMA Female

Model: TLLF-DC-50M-L4

TLLF-DC-50M-L4 is a coaxial low-pass filter with a passband frequency from DC to 50 MHz and a rejection frequency @ 70 MHz. The maximum insertion loss of the filter is 2.0 dB and the minimum rejection is 60 dB.

#### Features:

- Passband Frequency Range DC to 50MHz
- Low Insertion Loss

#### Applications:

- Instrumentations
- Test Labs
- Sub-assemblies

### 电气特性 Electrical Characteristics:

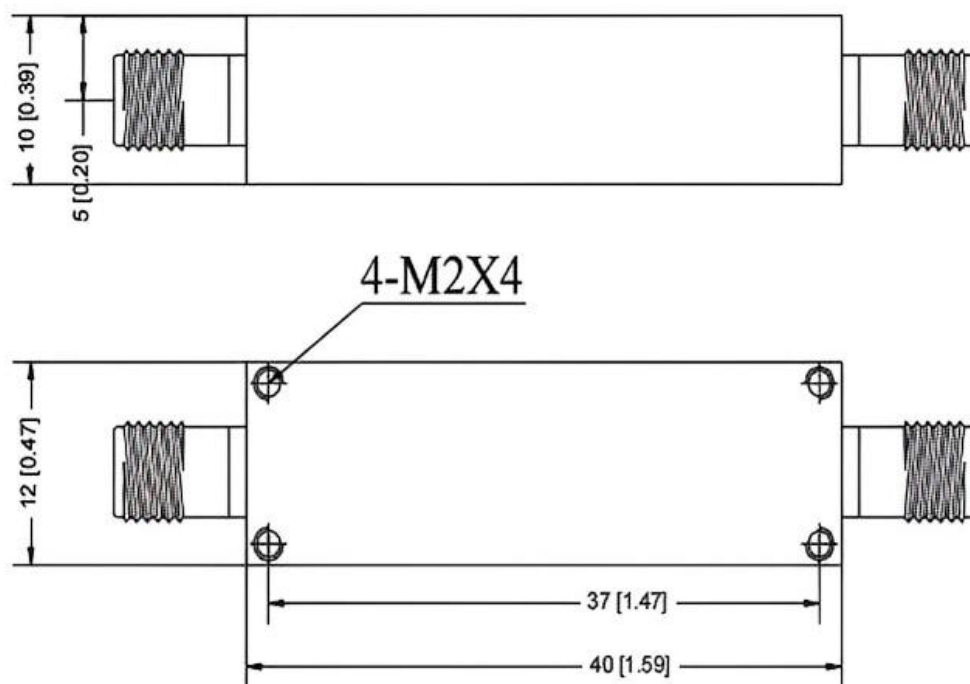
| 参数 Parameter                    | Min         | Typ | Max | 单位 Units |
|---------------------------------|-------------|-----|-----|----------|
| 通带频率范围 Passband Frequency range | DC          |     | 50  | MHz      |
| 通带插损 Passband Insertion Loss    |             |     | 2.0 | dB       |
| 带内波动 Pass band Ripple           |             |     | 1.8 | dB       |
| 带外抑制 Rejection                  | >60dB@70Mhz |     |     |          |
| 耐受功率 Power Handling             |             |     | 2   | W        |
| 驻波 VSWR                         |             |     | 1.6 | :1       |
| 阻抗 Impedance                    | 50          |     |     | Ohms     |

### 环境和机械特性 Envirionmental And Physical Characteristics:

| 类型 Description            | 参数 Parameter | 单位 Units |
|---------------------------|--------------|----------|
| 操作温度 Operating Temerature | -40 To +70   | °C       |
| 接口 Connectors             | SMA Female   |          |
| 尺寸 Size                   | 40*12*10     | mm       |

## 外形图 Outline Drawing:

Unit:mm



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

## 订货信息 Ordering Information:

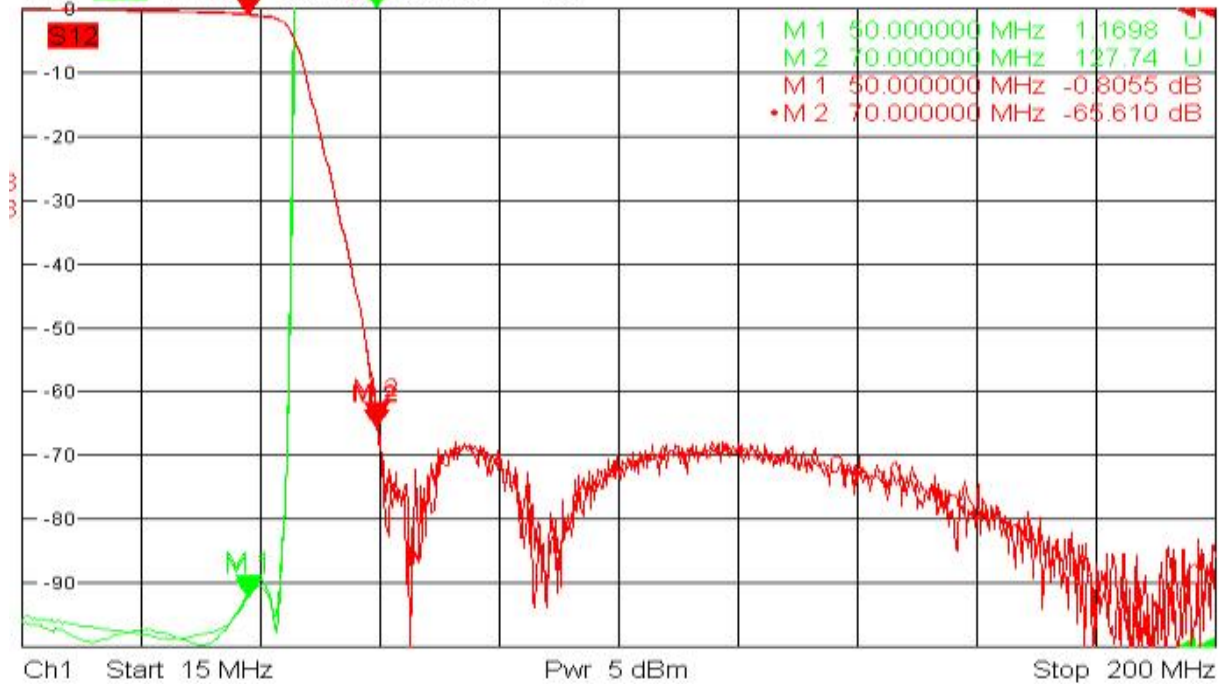
| 标准型号 Base Number | 描述 Description                                                                                          | 版本号 Revision |
|------------------|---------------------------------------------------------------------------------------------------------|--------------|
| TLLF-DC-50M-L4   | Coaxial Low-pass Filter, Passband frequency range: DC-50MHz, Passband Insertion Loss: 2.0dB, SMA Female | Rev.1.0      |

## 典型曲线 Typical Performance Data:



1 of 1 (Max)

Trc1 **S11** SWR 200 mU/ Ref 1 U Cal  
Trc2 **S12** dB Mag 10 dB / Ref 0 dB Cal  
Trc3 **S21** dB Mag 10 dB / Ref 0 dB Cal  
Trc4 **S22** SWR 200 mU/ Ref 1 U Cal



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.