

## Coaxial Band-pass Filter

### Center Frequency 1.53 GHz/SMA Female

**Model: TLBF-1G53-10M-E**

TLBF-1G53-10M-E is a coaxial band-pass filter with a passband center frequency at 1.53 GHz and a rejection frequencies at  $f_c \pm 40$  MHz. The maximum insertion loss of the filter is 1.8 dB and the minimum rejection is 40 dB.

#### Features:

- Passband Center Frequency 1.53 GHz
- Low Insertion Loss
- High Rejection
- Steep Rejection Skirts

#### Applications:

- Instrumentations
- Radar Systems
- System Integrations

#### Electrical Characteristics:

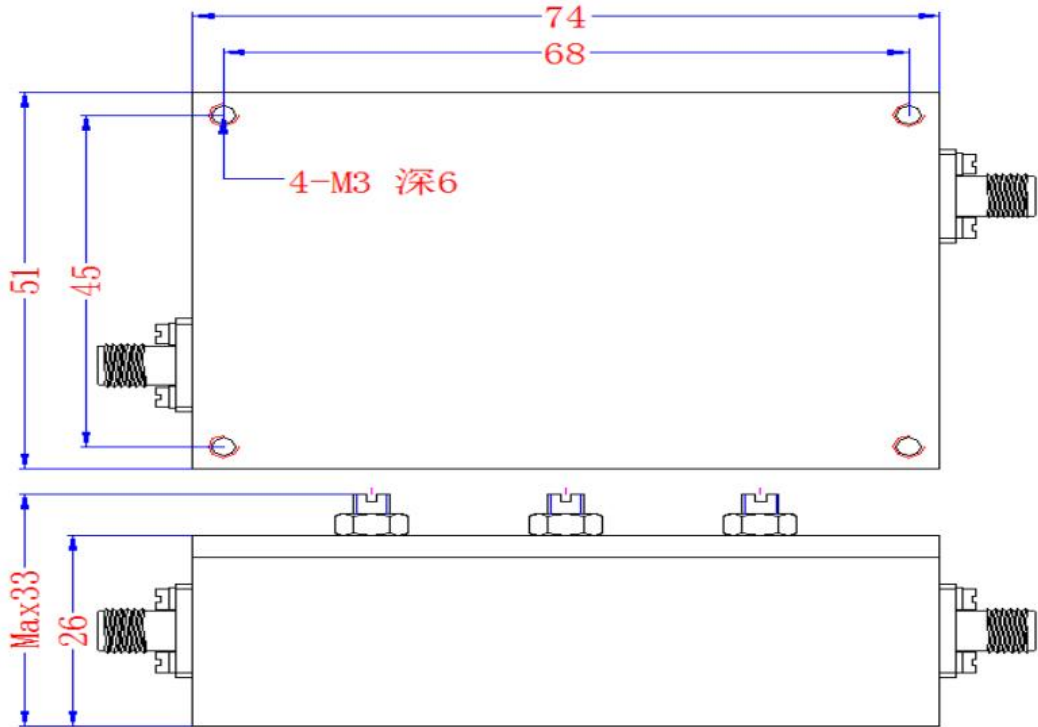
| Parameter                   | Min   | Typ | Max   | Units |
|-----------------------------|-------|-----|-------|-------|
| Passband Frequency range    | 1.525 |     | 1.535 | GHz   |
| Band Width                  |       |     | 10    | MHz   |
| Passband Insertion Loss     |       |     | 1.8   | dB    |
| Pass Band Ripple            |       |     | 2     | dB    |
| VSWR                        |       |     | 1.5   | :1    |
| Rejection@ $f_c \pm 40$ MHz | 40    |     |       | dB    |
| Power Handling              |       |     | 5     | W     |
| Impedance                   | 50    |     |       | Ohms  |

#### Environmental And Physical Characteristics:

| Description           | Parameter  | Units |
|-----------------------|------------|-------|
| Operating Temperature | -40 To +70 | °C    |
| Connectors            | SMA Female |       |
| Size                  | 26*51*74   | mm    |

Outline Drawing:

Unit:mm

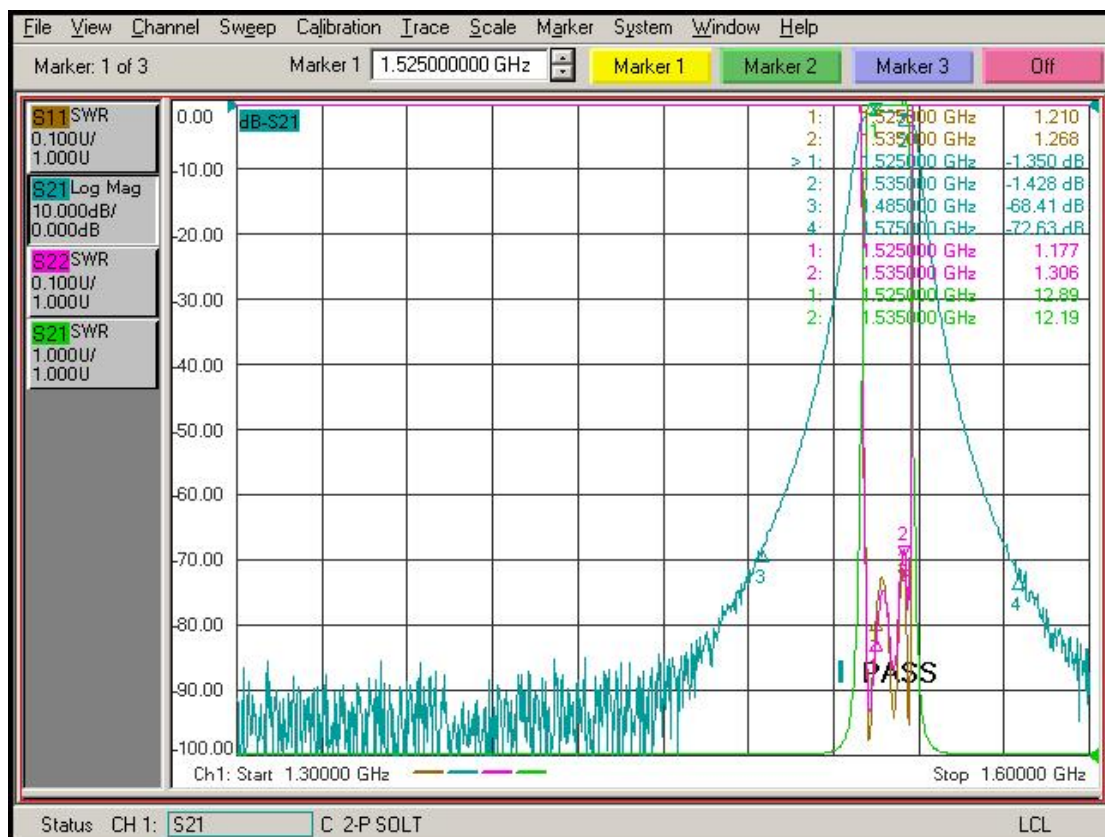


ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

Ordering Information:

| Base Number     | Description                                                                                              | Revision |
|-----------------|----------------------------------------------------------------------------------------------------------|----------|
| TLBF-1G53-10M-E | Coaxial Band-pass Filter, Passband center frequency: 1.53GHz, Passband Insertion Loss: 1.8dB, SMA Female | Rev.1.0  |

## Typical Performance Data:



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.