



Ultra Wide Band Coaxial Isolator 240-400MHz



- High power handle capability up to 50W
- Wide band operation
- High isolation within operational band
- Low Insertion loss
- Low temperature coefficient ferrite material offer stable performance over temperature
- Aerospace and military application
- LMDS multi-carrier operation
- High peak to average handle capability
- All specifications can be modified upon request

| Parameter | Min | Type | Max | Units |
|-------------------------|--|------|------|--------|
| Frequency Range | 240-400 | | | MHz |
| Insertion Loss | | 0.70 | 0.80 | dB |
| Isolation (Note 1) | 18 | 19 | | dB |
| VSWR | | 1.30 | 1.40 | :1 |
| Forward Power (CW) | | | 50 | W |
| Reverse Power (CW) | | | 5 | W |
| Rotation | Clockwise (Standard) Counter Clockwise (upon request) | | | |
| Input /Output Connector | SMA-Female | | | |
| Finishing | Nickel Plated | | | |
| Case Material | Aluminum alloy | | | |
| Operational Temp. | -40 | | +70 | °C |
| Storage Temp. | -40 | | +85 | °C |
| Altitude | | | | ft. |
| Weight | 7.76 | | | ounces |
| Impedance | 50 | | | Ω |
| Vibration | 10g 15 degree 2KHz | | | RMS |
| Humidity | 100% RH at 35c, 95%RH at 40°C | | | |
| Shock | 20G for 11msc. | | | |

Note 1: Unit has narrow frequency bandwidth can achieve higher isolation & low insertion loss

Bandwidth (5 ~10) % x Center Frequency (Isolation >23dB)

Bandwidth (20~30) % x Center Frequency (Isolation >21dB)

Bandwidth (40~60) % x Center Frequency (Isolation >20dB)

Ask manufacture for detail

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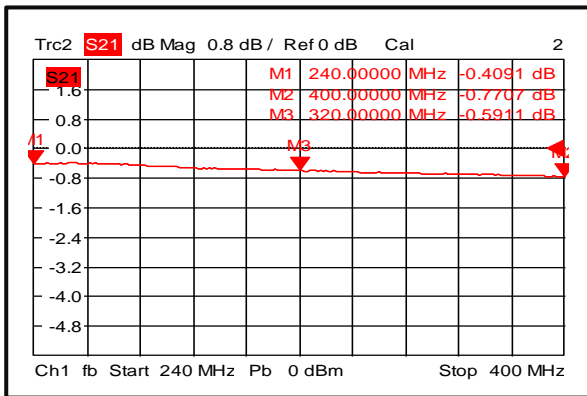


Environment specifications

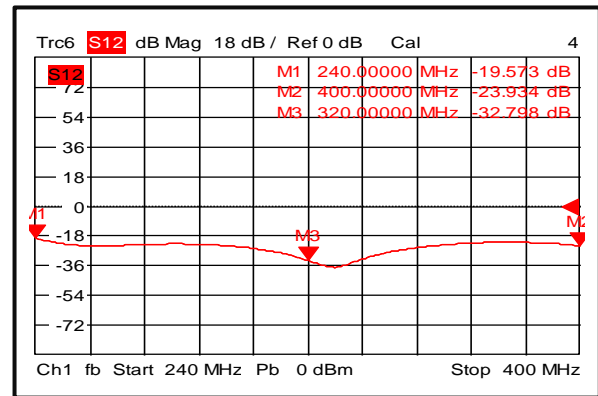
| | |
|------------------------------|---|
| Operational Temperature (C°) | -40 ~ +70 |
| Storage Temperature (C°) | -40 ~ +85 |
| Altitude | 30,000 ft. (Epoxy Seal Controlled environment) |
| | 60,000 ft 1.0psi min (Hermetically Seal Un-controlled environment) (Optional) |
| Vibration | 25g rms (15 degree 2KHz) endurance, 1 hour per axis |
| Humidity | 100% RH at 35c, 95%RH at 40 deg c |
| Shock | 20G for 11msc half sin wave,3 axis both directions |

Typical performance plots

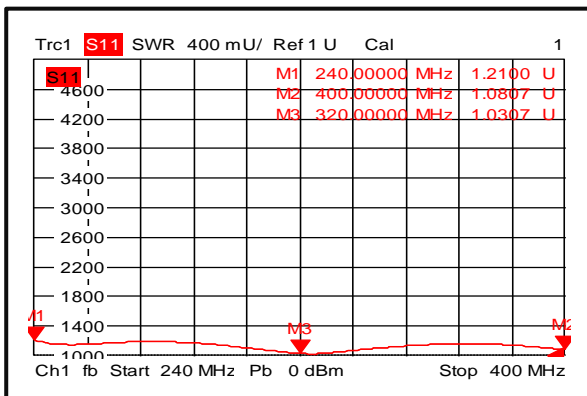
Insertion Loss



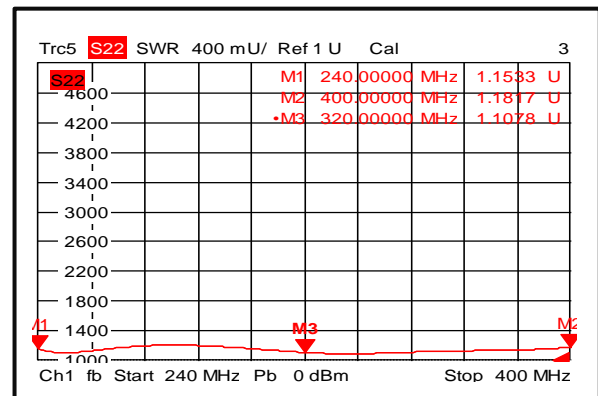
Isolation



VSWR 1



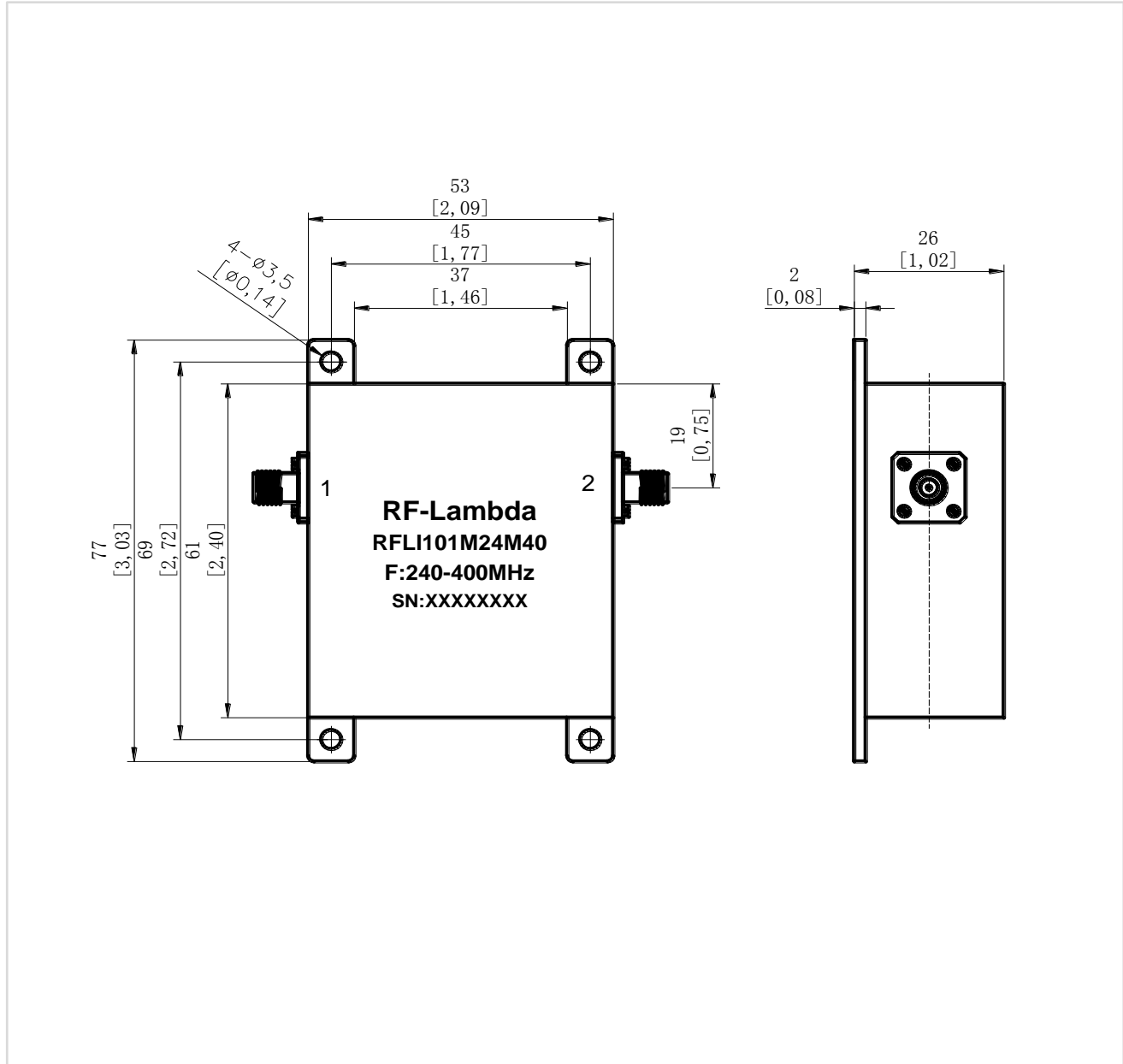
VSWR2





Outline Drawing:

All Dimensions in mm (inches)



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