Wide Band Coaxial Isolator
335 ~ 400MHz



Note: The photo is for illustration purposes only.
Please refer to the outline drawing.

RoHS Compliant

Features

- High power handling up to 20W
- High isolation within operational band
- Low Insertion Loss
- Stable performance over temperature

Typical Applications

- Aerospace and military applications
- Test and Measurement
- Wireless infrastructure

Electrical Specifications, T_A=25 ℃

Parameter	Min.	Typ.	Max.	Units
Frequency Range		335~400		MHz
Insertion Loss		0.3	0.7	dB
Isolation (Note 1)	19	22		dB
VSWR		1.15	1.3	:1
Forward Power (CW)			20	W
Rotation	Clockwise (Standard) Counter Clockwise (Upon Request)			
Input / Output Connectors	SMA-Female			
Finish	Nickel Plated			
Case Material	Aluminum Alloy			
Impedance	50			Ω

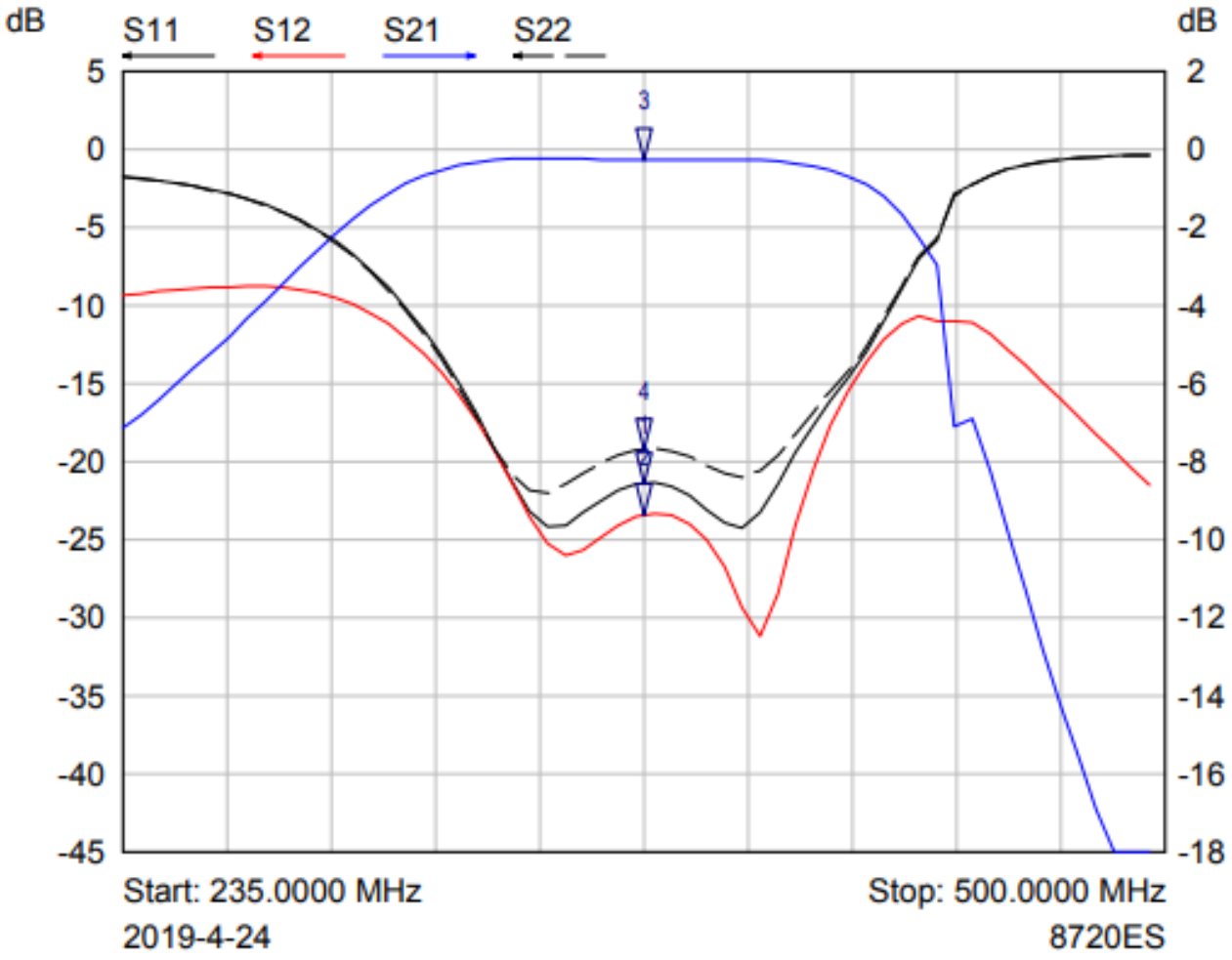
Note 1: Units which have a narrower frequency bandwidth can achieve higher isolation & lower insertion loss
Bandwidth (5 ~10) % x Center Frequency (Isolation >24dB)
Bandwidth (20~30) % x Center Frequency (Isolation >23dB)
Bandwidth (40~60) % x Center Frequency (Isolation >21dB)
Ask manufacturer for details

Wide Band Coaxial Isolator 335 ~ 400MHz

Environmental Specifications and Test Standards

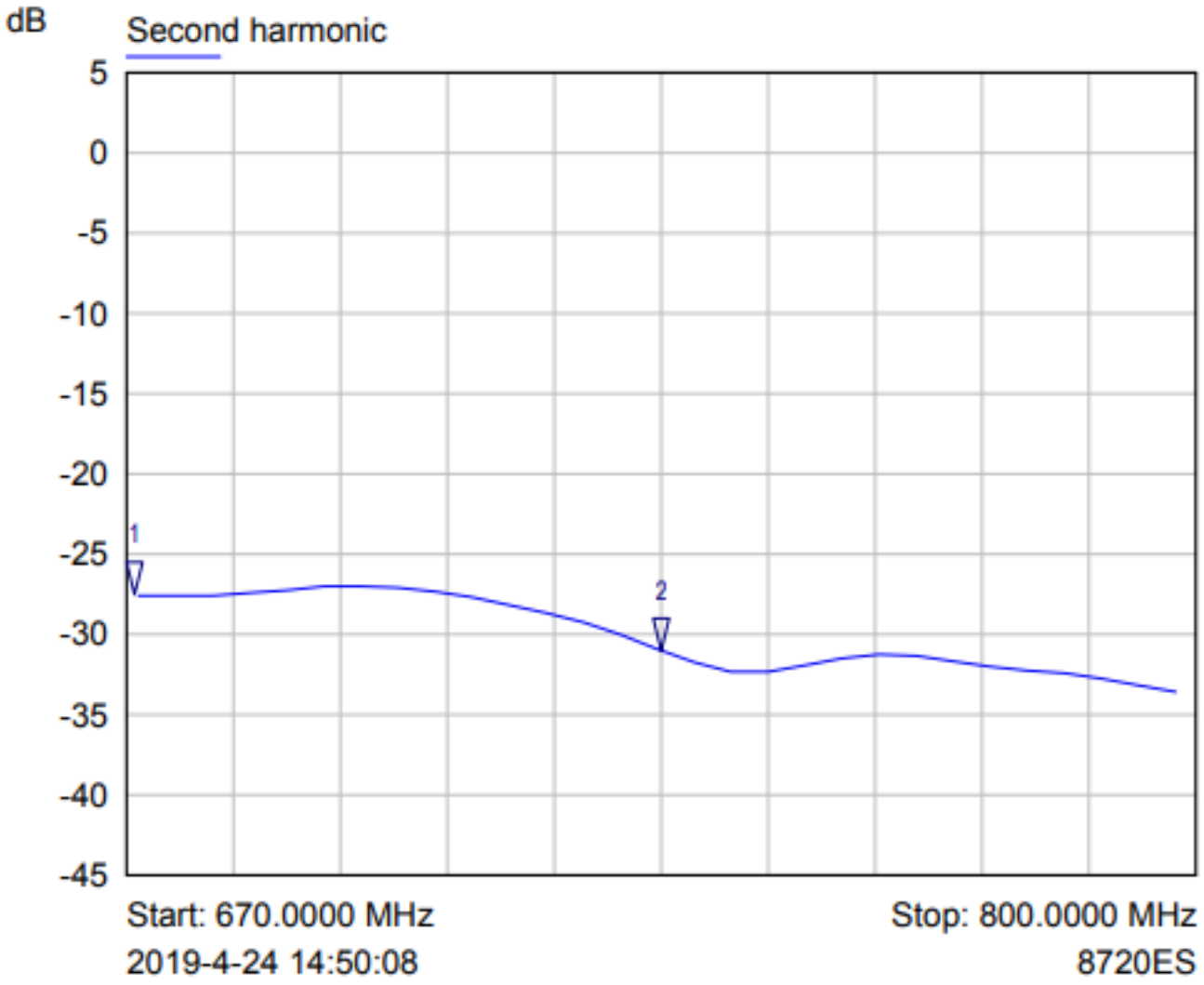
Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-40℃~+70℃
Storage Temperature		-45℃~+85℃
Thermal Shock		1 Hour@ -45℃ → 1 Hour @ +85℃ (5 Cycles)
Random Vibration		Acceleration Spectral Density 6 (m/s) Total 92.6 RMS
Electrical & Temperature Burn In		Temperature +85℃ for 72 Hours
Shock		1. Weight >20g, 50g half sine wave for 11ms, Speed variation 3.44m/s 2. Weight <=20g, 100g Half sine wave for 6ms, Speed variation 3.75m/s 3. Total 18 times (6 directions, 3 repetitions per direction).
Altitude		Standard: 30,000 Ft (Epoxy Sealed Controlled Environment) Optional: Hermetically Sealed (60,000 ft. 1.0 PSI min)
Hermetically Sealed (Optional)	MIL-STD-883	MIL-STD-883 (For Hermetically Sealed Units)

Typical Performance Plots



Mkr	Trace	X-Axis	Value	Notes
1 ▽	S11	367.5000 MHz	-21.39 dB	
2 ▽	S12	367.5000 MHz	-23.44 dB	
3 ▽	S21	367.5000 MHz	-0.27 dB	
4 ▽	S22	367.5000 MHz	-19.21 dB	

Wide Band Coaxial Isolator 335 ~ 400MHz

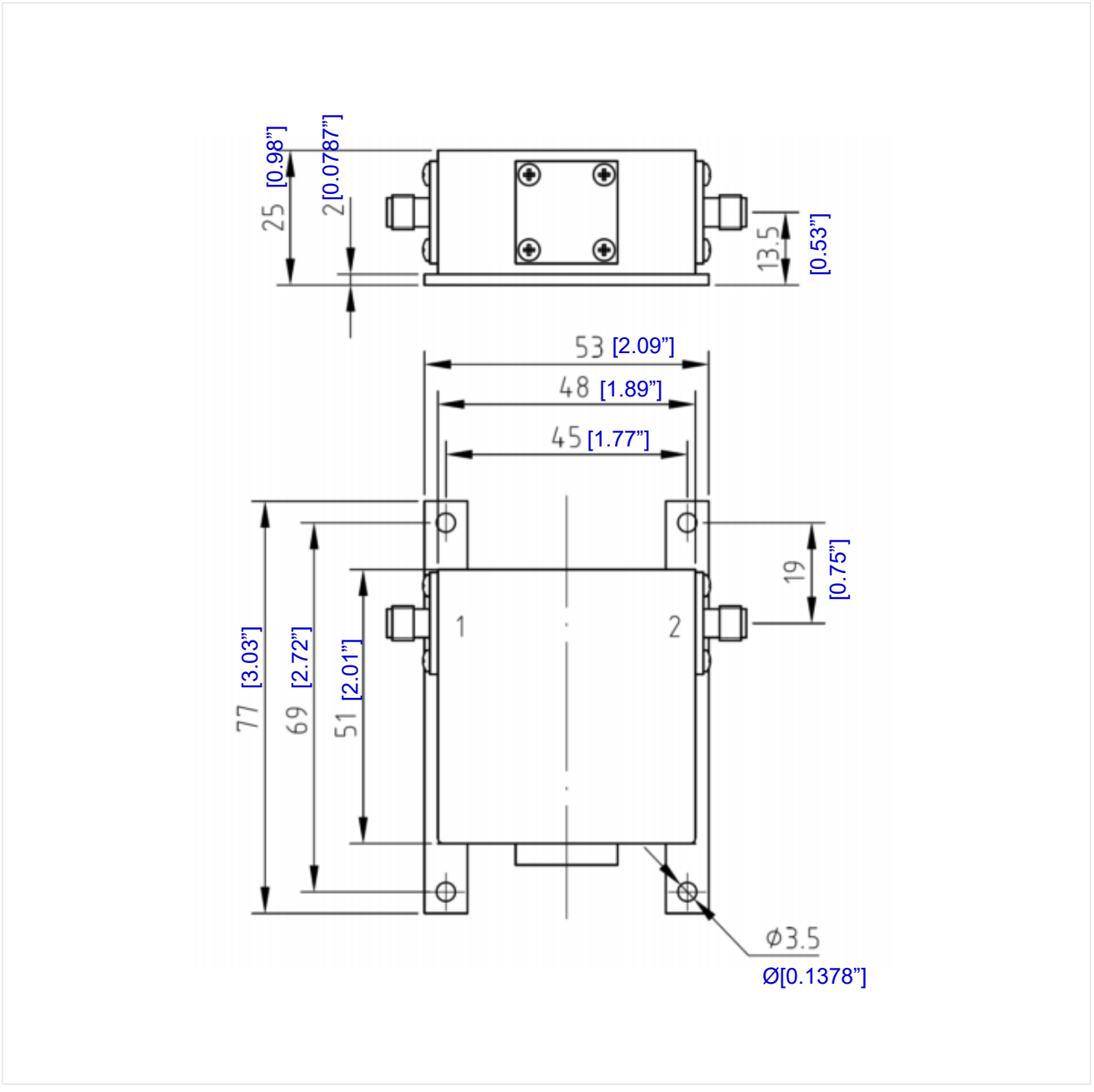


Mkr	Trace	X-Axis	Value
1 ▽	Second harmonic	670.0000 MHz	-27.54 dB
2 ▽	Second harmonic	735.0000 MHz	-31.00 dB
3 ▽	Second harmonic	800.0000 MHz	-33.70 dB

Wide Band Coaxial Isolator 335 ~ 400MHz

Outline Drawing:

All Dimensions in mm [inches]



Important Notice

The information contained herein is believed to be reliable. RF-Lambda makes no warranties regarding the information contained herein. RF-Lambda assumes no responsibility or liability whatsoever for any of the information contained herein. RF-Lambda assumes no responsibility or liability whatsoever for the use of the information contained herein. The information contained herein is provided "AS IS, WHERE IS" and with all faults, and the entire risk associated with such information is entirely with the user. All information contained herein is subject to change without notice. Customers should obtain and verify the latest relevant information before placing orders for RF-Lambda products. The information contained herein or any use of such information does not grant, explicitly or implicitly, to any party any patent rights, licenses, or any other intellectual property rights, whether with regard to such information itself or anything described by such information.
RF-Lambda products are not warranted or authorized for use as critical components in medical, life-saving, or life sustaining applications, or other applications where a failure would reasonably be expected to cause severe personal injury or death.