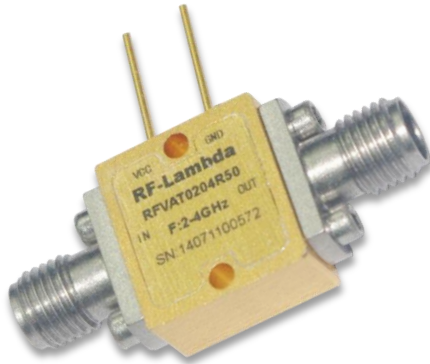




### Reflective Voltage Control Attenuator 2 - 4GHz



#### Features

- Wide Band Operation 2-4GHz
- Wide Attenuation Range 50dB
- Reflective Topology
- Single Control Operation

#### Typical Applications

- Wireless Infrastructure
- Test and Measurement
- Military and Aerospace

#### Electrical Specifications, $T_A = +25^\circ\text{C}$

Description	PN: RFVAT0204R50			
	Reflective Voltage Attenuator			
Parameter	Min	Typ.	Max	Units
Frequency Range	2		4	GHz
Attenuation Range		50		dB
Insertion Loss			1.2	dB
Insertion Loss Temperature Coefficient		0.003		dB/ $^\circ\text{C}$
Input VSWR (@ Reference Attenuation)			1.5	:1
Output VSWR (@ Reference Attenuation)			1.5	:1
0.1dB Compression Point (Po.1dB)		30		dBm
Input IP3		43		dBm
Switching Speed			2.5	us
Control Voltage	DC	10v		V
Weight	/			ounces
Impedance	50			$\Omega$
Current	30			mA
Input / Output Connectors	SMA-Female			
Finish	Gold Plated			
Material	Brass			
Sealing	Hermetically Sealed (Optional)			

Reflective Voltage Control Attenuator 2 - 4GHz



**Absolute Maximum Ratings**

Control Voltage	DC-15V
RF Input Power	30dBm

**Ordering Information**

Part No.	ECCN	Description
RFVAT0204R50	EAR99	2-4GHz Voltage Control Attenuator

**Environmental Specifications and Test Standards**

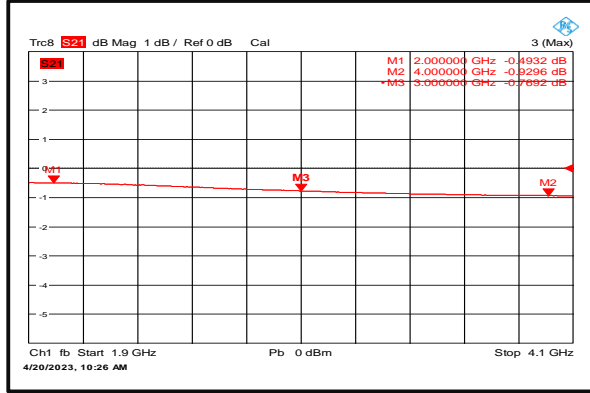
Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-45°C~+85°C
Storage Temperature		-55°C~+125°C
Thermal Shock		1 Hour@ -45°C → 1 Hour @ +85°C (5 Cycles)
Random Vibration		Acceleration Spectral Density 6 (m/s) Total 92.6 RMS
Electrical & Temperature Burn In		Temperature +85°C for 72 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)

**Reflective Voltage Control Attenuator 2 - 4GHz**

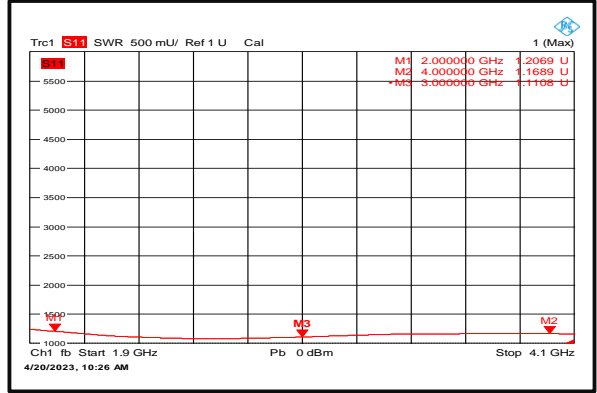


### Typical Performance Plots

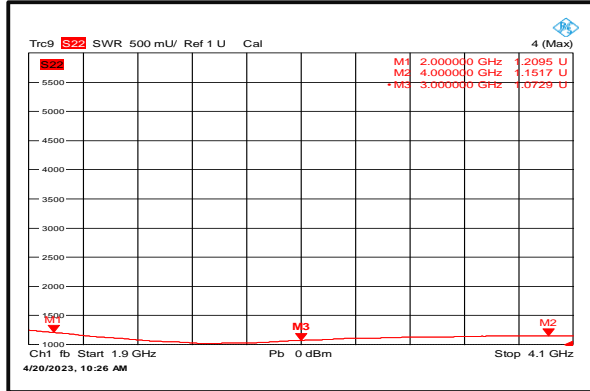
#### Insertion Loss



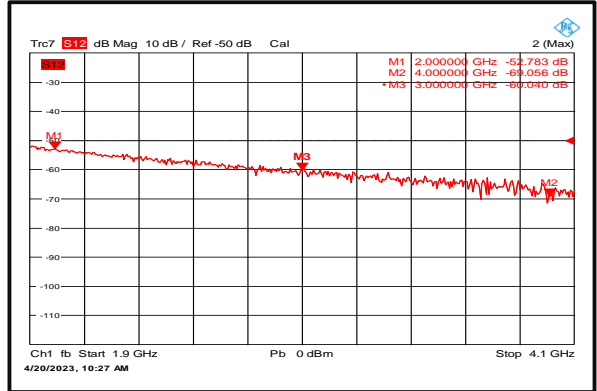
#### Input VSWR



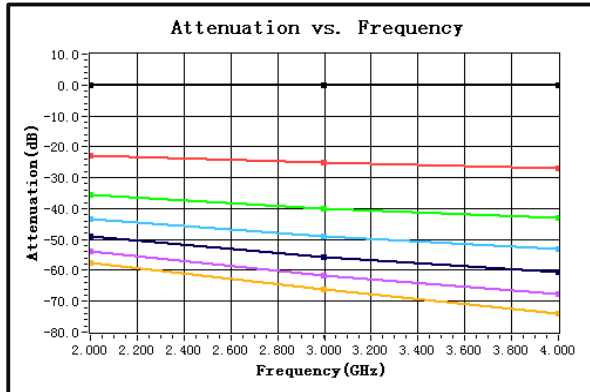
#### Output VSWR



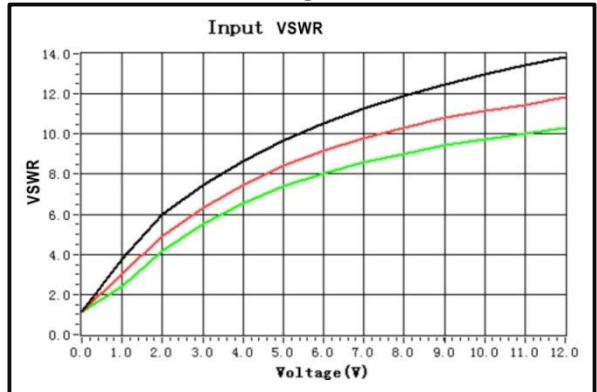
#### Isolation



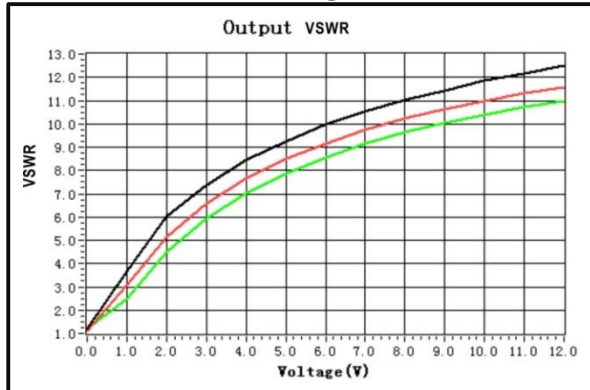
#### Attenuation vs. Frequency



#### Input VSWR vs. Voltage



#### Output VSWR vs. Voltage



Reflective Voltage Control Attenuator 2 - 4GHz



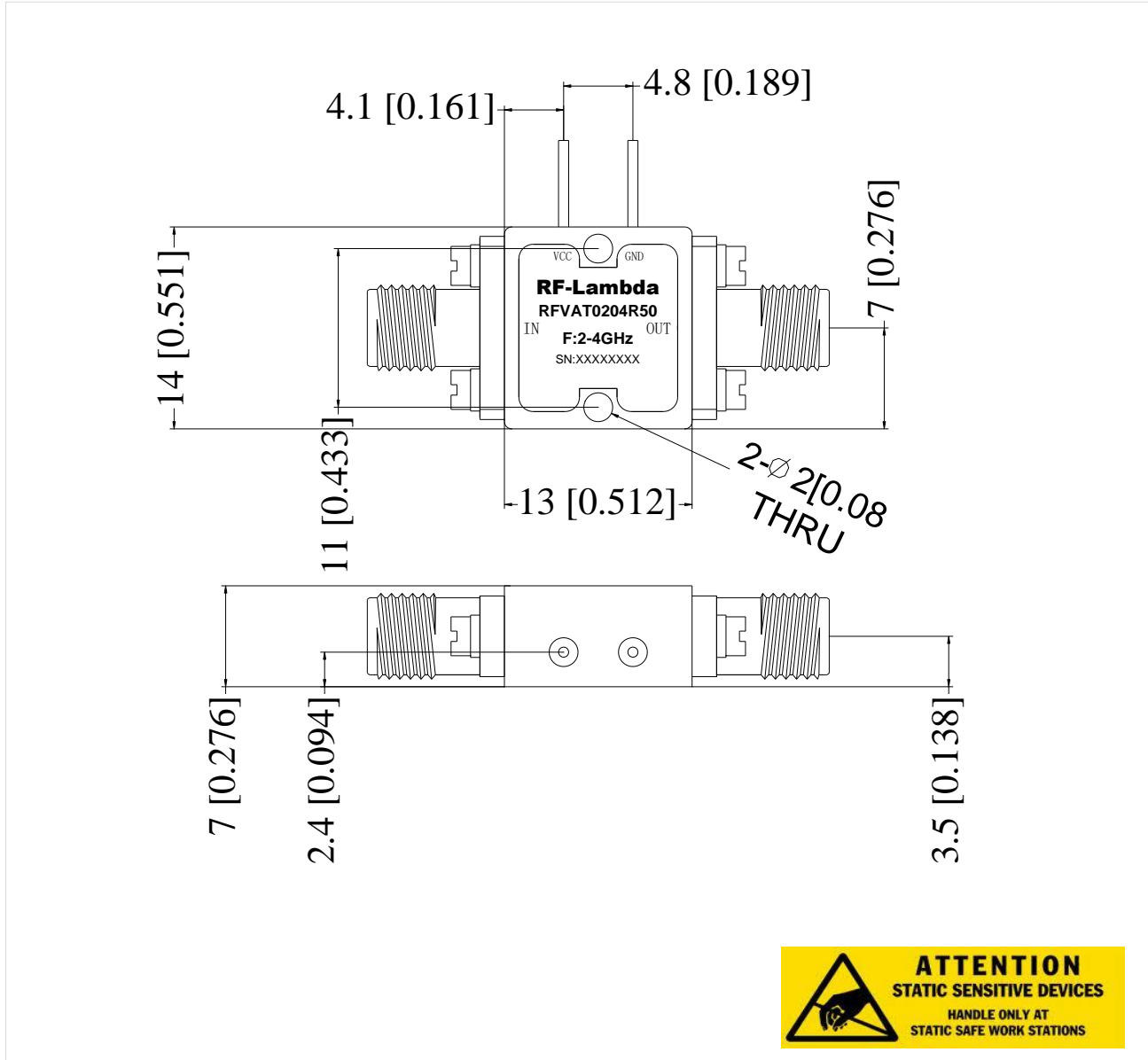
# RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

## RFVAT0204R50

### Outline Drawing:

All Dimensions in mm [inches]



Reflective Voltage Control Attenuator 2 - 4GHz

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