

High Power Phase Shifter Tuner DC–2GHz



Product Description

The RFPSHT0002W4 is a high power phase shifter tuner with a frequency range of DC to 2GHz.

The phase shifter's adjustment range 180 degrees. The insertion loss is 0.8dB with a max VSWR of 1.3:1.

Phase shifters are devices used to adjust transmission phase in a system,. RF-Lambda phase shifters provide low insertion loss, and equal amplitude (or loss) in all phase states.

The working temperature of this product is between - 10°C and + 50°C.

Features

- Manual Phase Shifter
- High Power Handle Capability
- Low Insertion Loss and High dynamic range

Typical Applications

- Wireless Infrastructure
- Military and Aerospace Applications
- Test Instrumentation
- Radar Systems
- 5G Wireless Communications
- Microwave Radio Systems
- TR Modules
- Research and Development
- Cellular Base Stations

Electrical Specifications (T_A=+25°C)

Parameter	Min	Typ	Max	Units
Frequency Range		DC - 2		GHz
Insertion Loss			0.8	dB
*Phase Range		180		degrees
VSWR			1.3	:1
Average Power			100	W
Peak Power			5	KW
Weight		1.2		lbs
Connectors		N-Type or SMA-Type		

*Phase Adjustment Range specification ONLY refers to the highest frequency point. The total phase adjustment range is proportional to the frequency range. HALF the frequency range means HALF of the phase adjustment range. For example 8GHz range 360deg, then 4GHz will be 180deg total range.

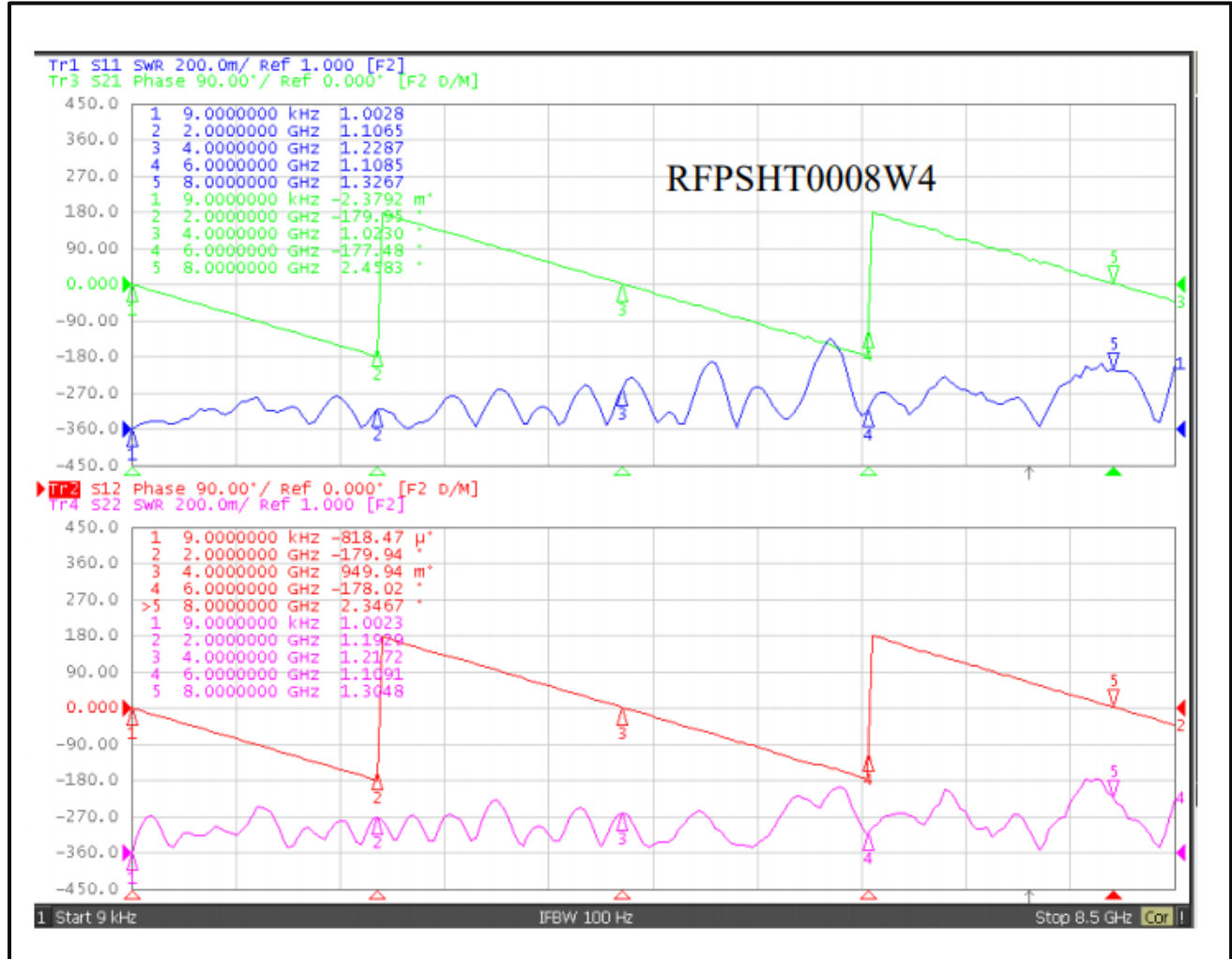
Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	-10°C to +50°C (Case Temperature)
Storage Temperature	-40°C to +70°C
Thermal Shock	-40°C → +85°C (5 Cycles / 10 hours)
**Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
High Temperature Burn In	Temperature +50°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 (For Hermetically Sealed Units)

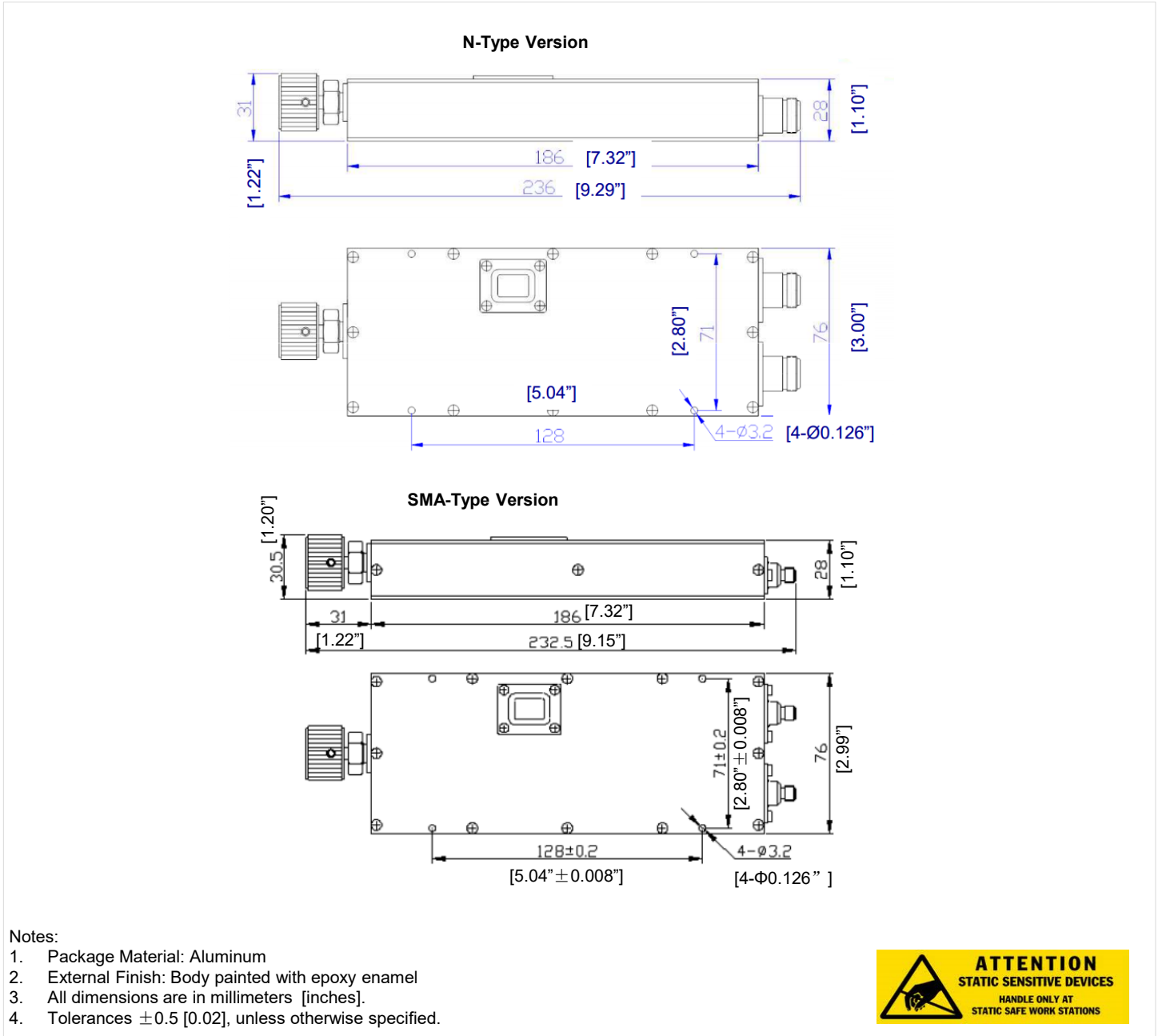
**For vibration testing details please see additional information section.

Typical Performance Plots

Insertion Loss & VSWR & Phase



Outline Drawing



Additional Information

Documentation	Webpage
ESD Policy	https://rflambda.com/pdf/rflambda_esd_control.pdf
Connector Torque Specifications	https://www.rflambda.com/pdf/Torque_Specifications.pdf
Random Vibration Test Standard	https://www.rflambda.com/pdf/rflambda_random_vibration_MIL-STD-202G.pdf

Ordering Information

Part Number	Modification	Description
RFPSHT0002W4	Connector N-Type or SMA-Type	DC-2GHz Manual Phase Shifter

Important Notice

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