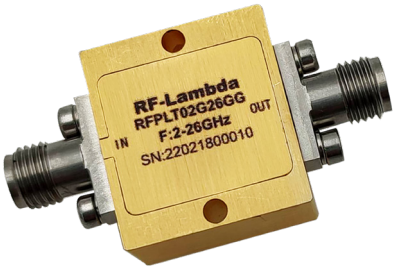
Wide Band Power Limiter
2GHz-26GHz



Product Description

The RFPLT02G26GG is a wideband power limiter with a frequency range of 2 to 26GHz.

The max input Power of the limiter is 37dBm. The typical insertion loss is 1.8 dB and Flat Leakage at > 30dBm input is 18dB.

The power limiter's connectors are 2.92mm-female.

The operating temperature of this product is -40 to +85ºC.

Features

- Wide Band Power Limiter
- Passive, High Isolation Limiter
- Low Insertion Loss
- High Power Handling: 5W

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=+25ºC)

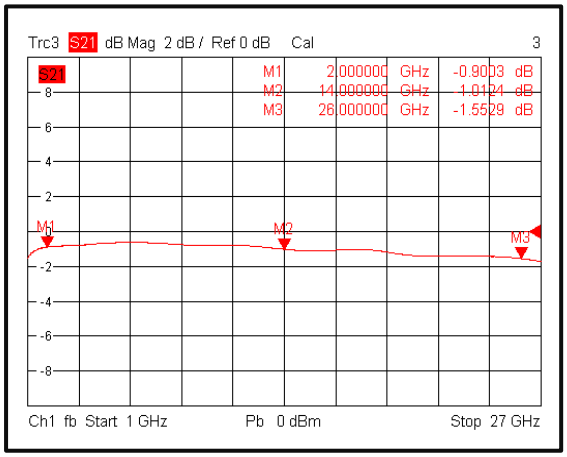
Parameter	Min	Typ	Max	Units
Frequency Range	2		26	GHz
Input Power			37	dBm
Peak Power Handling (30us with 5% duty cycle)			40	dBm
Insertion Loss		1.8	2.1	dB
VSWR		1.6	2.1	: 1
Flat Leakage Power at PIN > 30 dBm			18	dBm
Peak Power Leakage			20.5	dBm
Weight		0.03Max.		lbs.
Input / Output Connectors		2.92mm-Female(Input) – 2.92mm-Female(Output)		
Package		Epoxy Sealed (Standard)		
		Hermetically Sealed (Optional)		

Environmental Specifications and Test Standards

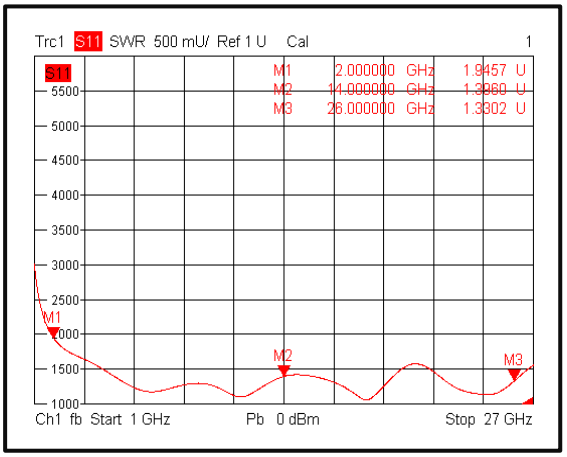
Parameter	Description
Operational Temperature	-40ºC to +85ºC (Case Temperature)
Storage Temperature	-50ºC to +105ºC
Thermal Shock	-40ºC → +85ºC (5 Cycles / 10 hours)
**Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
High Temperature Burn In	Temperature +85ºC for 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)

Typical Performance Plots

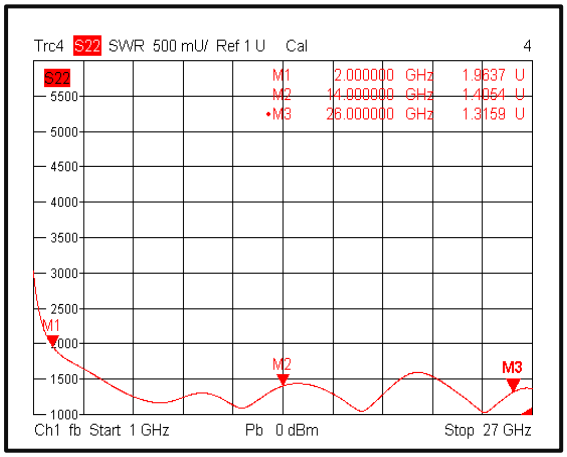
Insertion Loss @+25℃



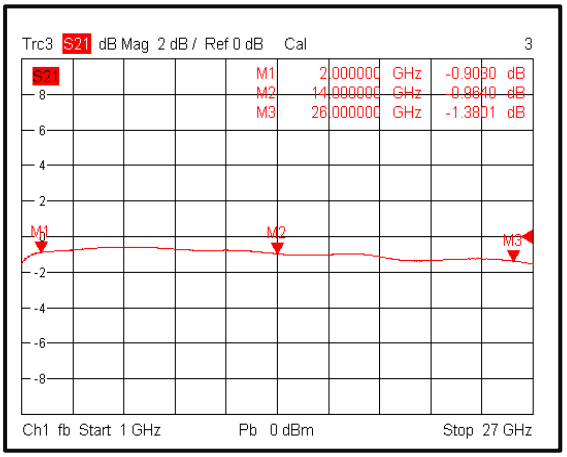
Input VSWR @+25℃



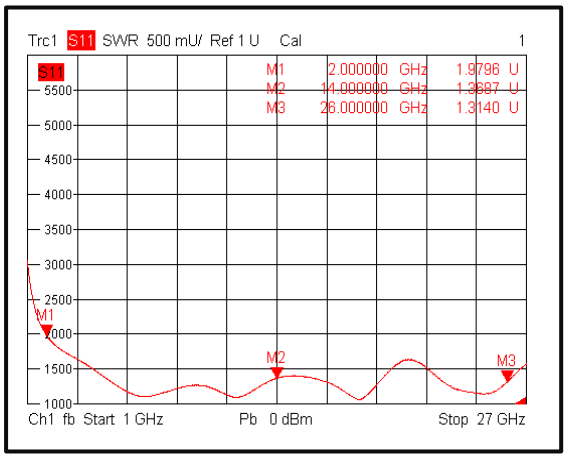
Output VSWR @+25℃



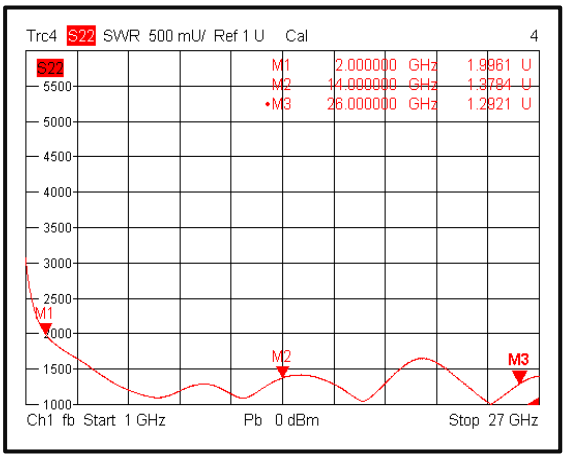
Insertion Loss @-40℃



Input VSWR @-40℃

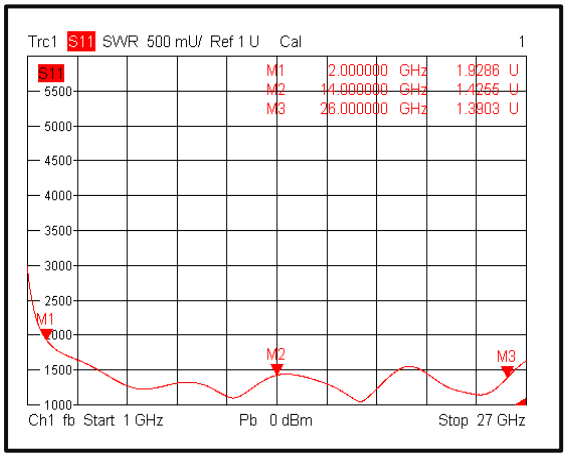


Output VSWR @-40℃

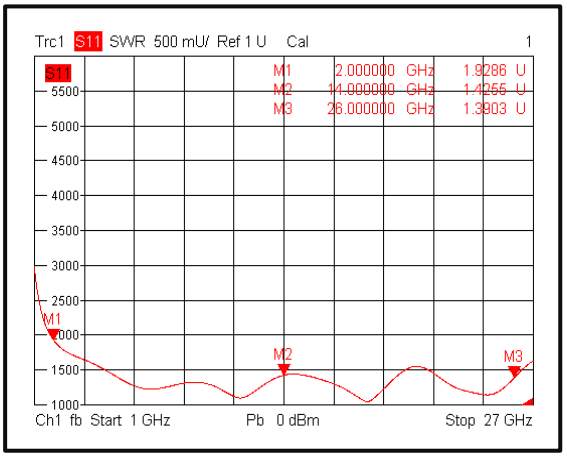


Typical Performance Plots

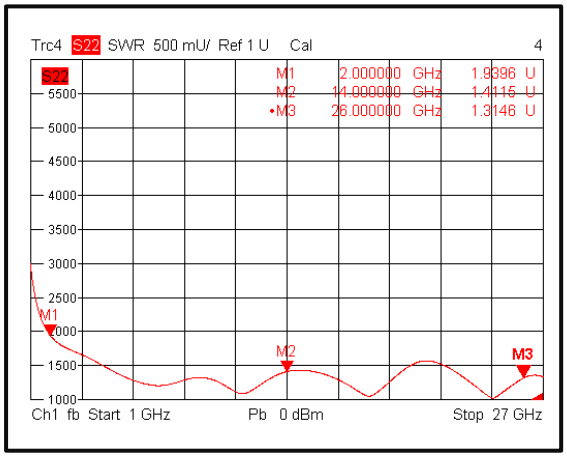
Insertion Loss @+85℃



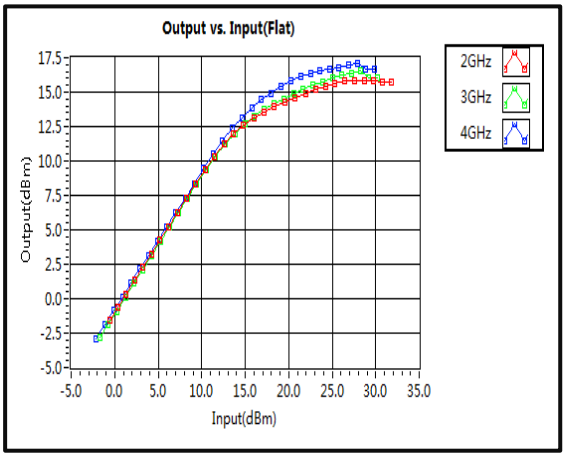
Input VSWR @+85℃



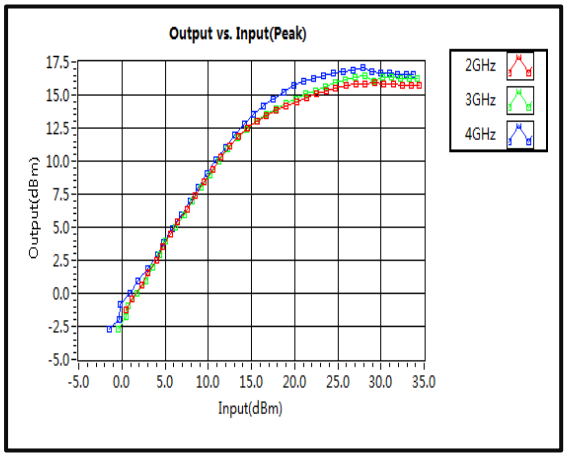
Output VSWR @+85℃



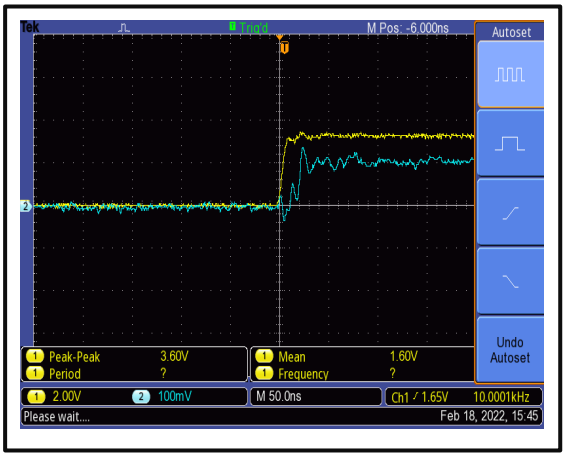
Flat Leakage Power



Peak Power Leakage



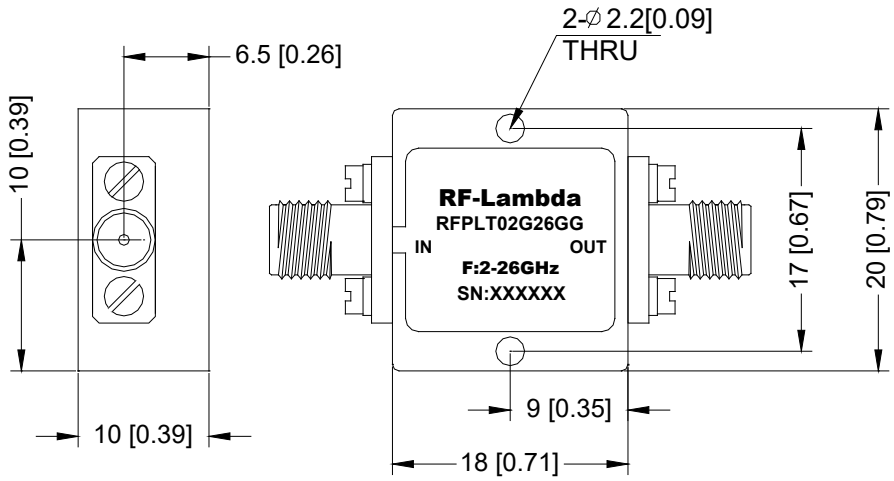
Limiting Speed



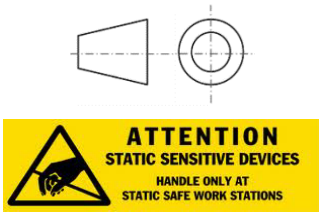
Typical Performance Plots

Recovery Time

Outline Drawing



Notes:
1. Package Material: Aluminum
2. Plating: Gold Plated
3. All dimensions are in millimeters [inches].
4. Housing Tolerances ±0.1 [0.004] unless otherwise specified.
5. Standard torque wrench must be used to secure RF connectors.



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
RFPLT02G26GG	Connectors 2.92mm-Female	2GHz-26GHz Power Limiter

Important Notice

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