

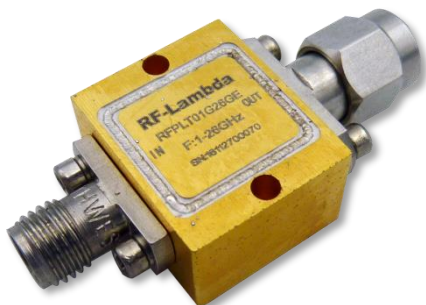


RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

RFPLT01G26GE

Wide Band Power Limiter 1 - 26GHz



Features

- Ultra Wide Band Operation 1-26GHz
- Passive High Isolation Limiter
- Low Insertion Loss and Good Return Loss
- High Power Handling Capability up to 10W
- Customization available upon request

Typical Applications

- Wireless Infrastructure
- Test and Measurement

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

Parameters	Min	Typ	Max	Min	Typ	Max	Units
Frequency Range	1 ~ 4			4 ~ 26			GHz
CW Input Power		25	27		25	27	dBm
Peak Power Handling (1.0 μ s pulse width, 1% duty cycle, ≤ 15 ns rise time)			45			45	dBm
Insertion Loss		1	1.5		2.5	3.5	dB
VSWR		1.5	2		1.6	2	:1
Flat Leakage Power		15	18		14	15	dBm
Peak Power Leakage		18	19		16	17	dBm
Weight	0.35						ounces
Input / Output Connectors	SMA-Female / SMA-Male						
Material	Aluminum						
Finishing	Gold Plated						

Wide Band Power Limiter 1 - 26GHz



RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

RFPLT01G26GE

Wide Band Power Limiter 1 - 26GHz

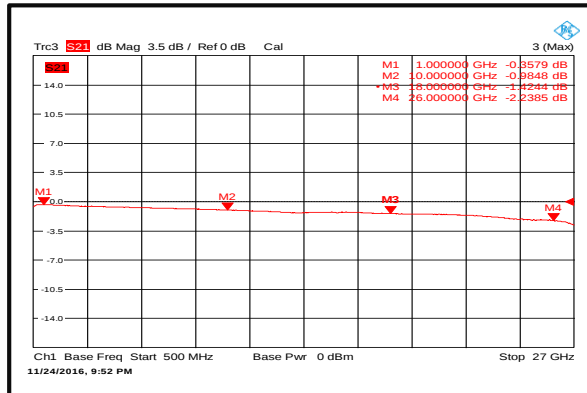
Environmental Specifications and Test Standards

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	MIL-STD-883	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)

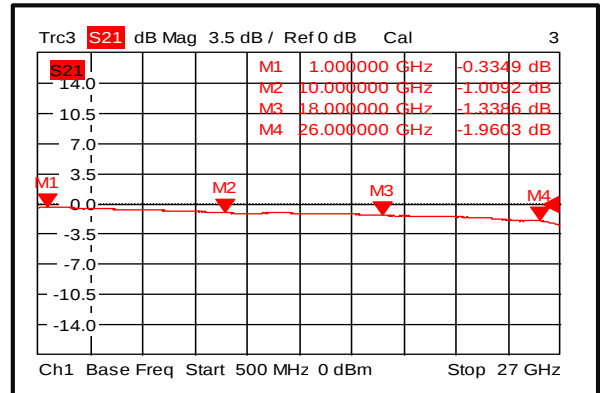


Typical Performance Plots

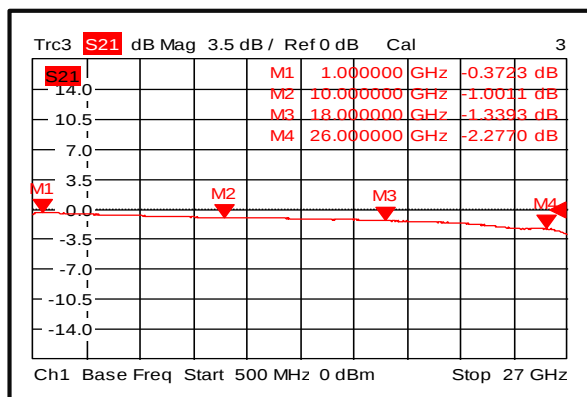
Insertion Loss @ 25°C



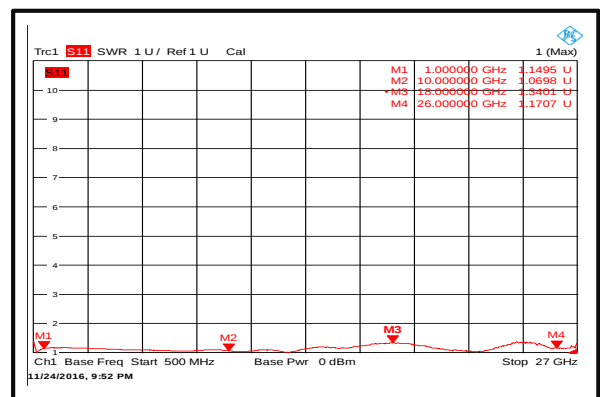
Insertion Loss @ -45°C



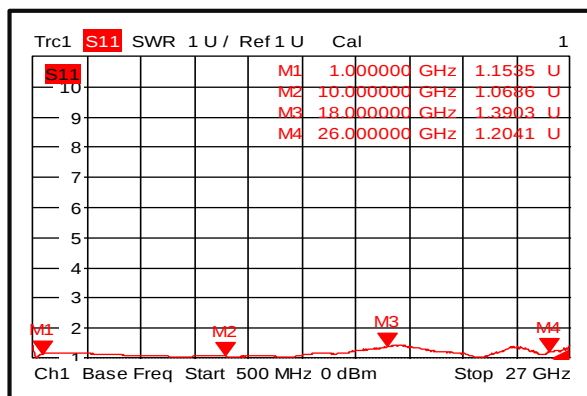
Insertion Loss @ +85°C



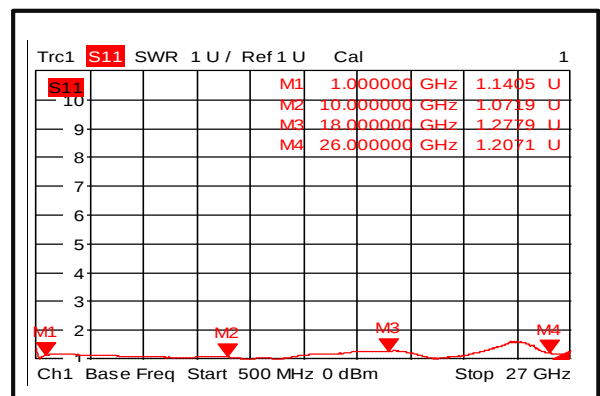
Input VSWR @ 25°C



Input VSWR @ -45°C

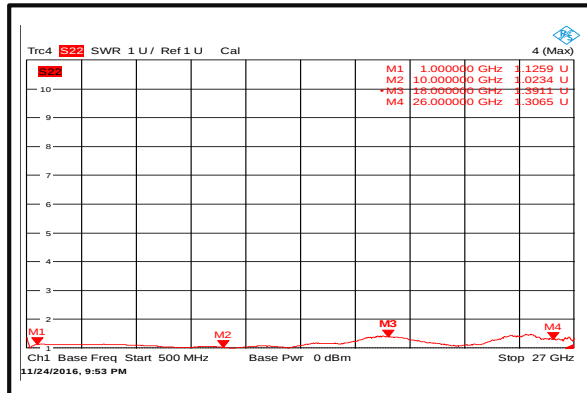


Input VSWR @ +85°C

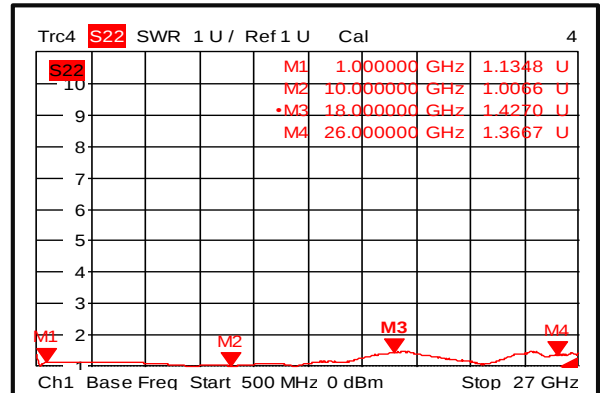




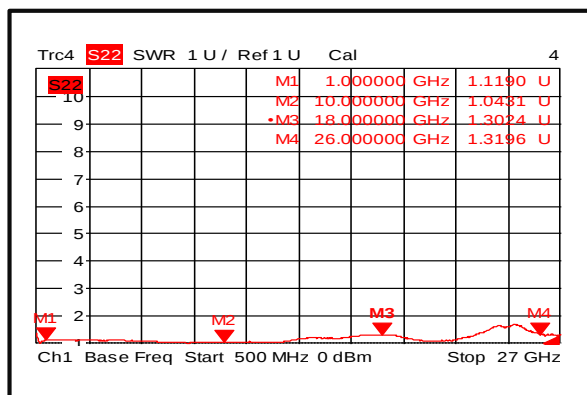
Output VSWR @ 25°C



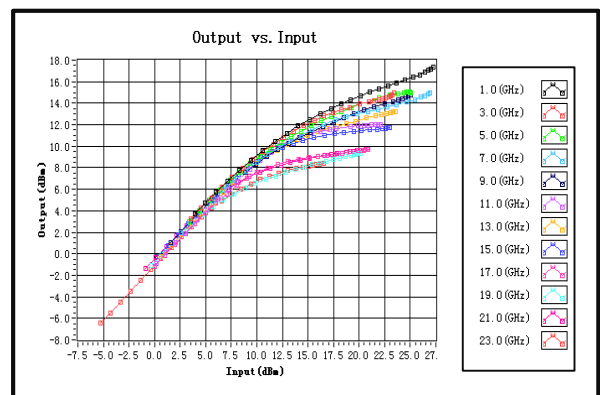
Output VSWR @ -45°C



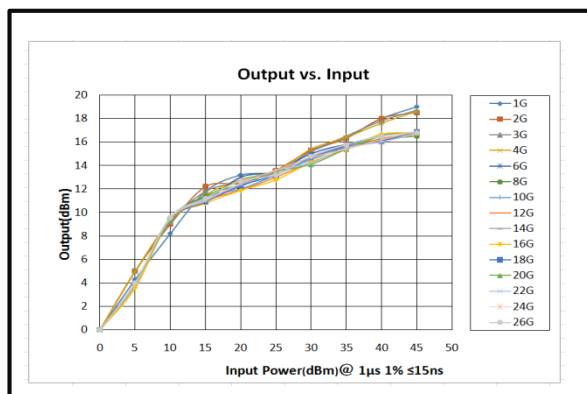
Output VSWR @ +85°C



Flat Leakage Power

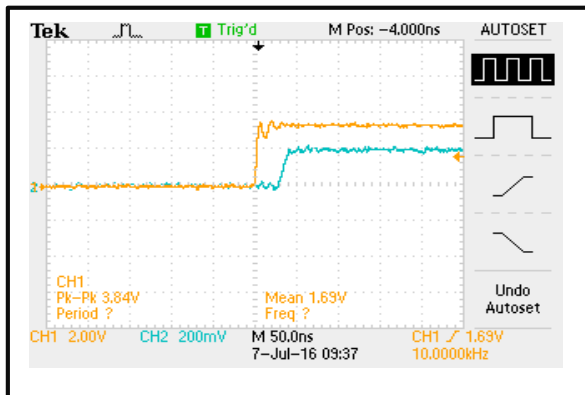


Peak Power Leakage

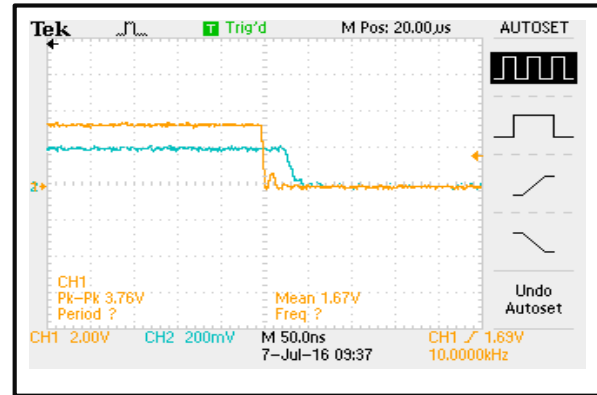




Limiting Speed



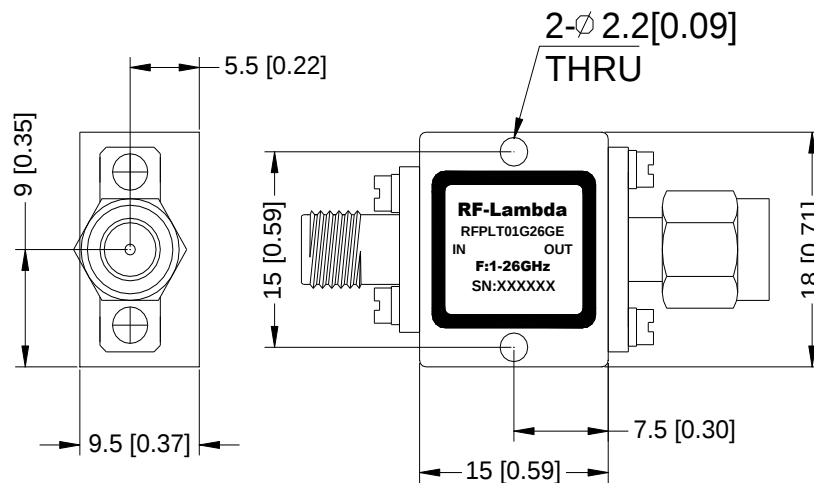
Recovery Time



Outline Drawing:

All Dimensions in mm [inches]

Tolerance ± 0.1 [0.004]



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.