



RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

RFAPLT01M05M

Input Over Drive Front End Protector 60 - 512MHz



Features

- Wide Band operation 60 - 512MHz
- Active, High Isolation Limiter
- High Power Handling Capability up to 10W
- Customization available upon request

Typical Applications

- Wireless Infrastructure
- Test and Measurement
- Military and Aerospace

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

Parameters	Min	Typ	Max	Units
Frequency Range	60		512	MHz
CW Input Power			10	W
Peak Power (<10% <2us)		20		W
Insertion Loss		0.8	1.3	dB
VSWR		1.5	2.6	: 1
Flat Leakage			-20	dBm
Peak Power Leakage		-20		dBm
Weight	4.23			ounces
Input / Output Connectors	SMA - Female			
Material	Aluminum			
Finish	Nickel Plated			

Input Over Drive Front End Protector 60 - 512MHz



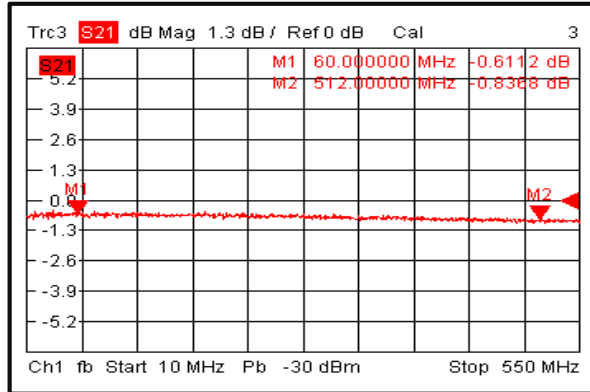
Environmental Specifications and Test Standards

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)

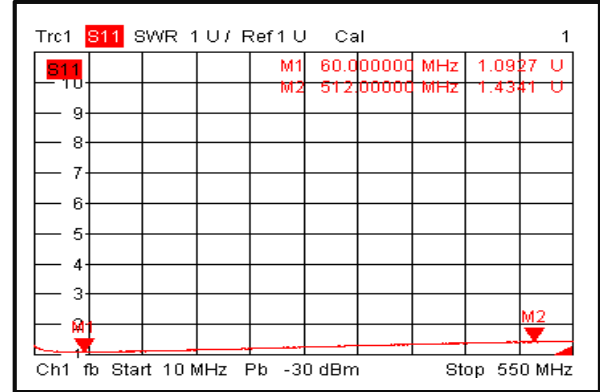


Typical Performance Plots

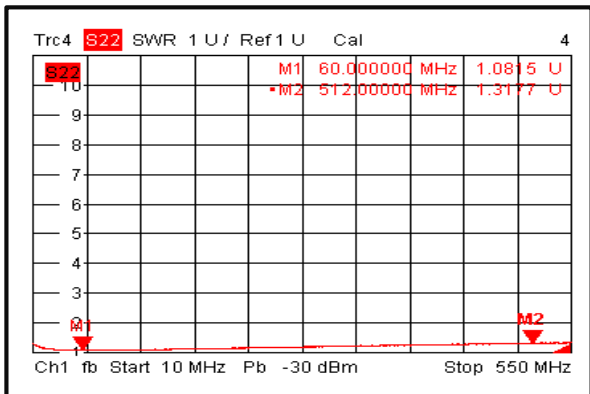
Insertion Loss



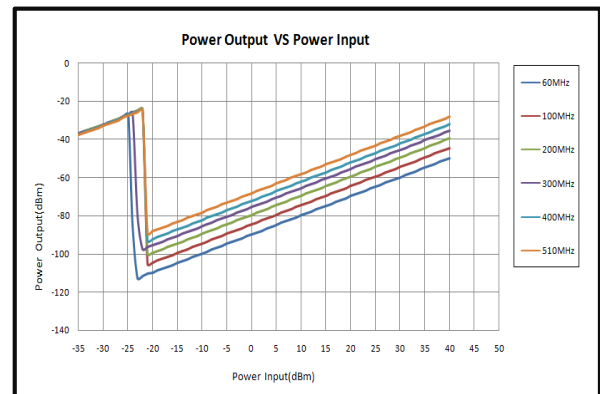
Input VSWR



Output VSWR



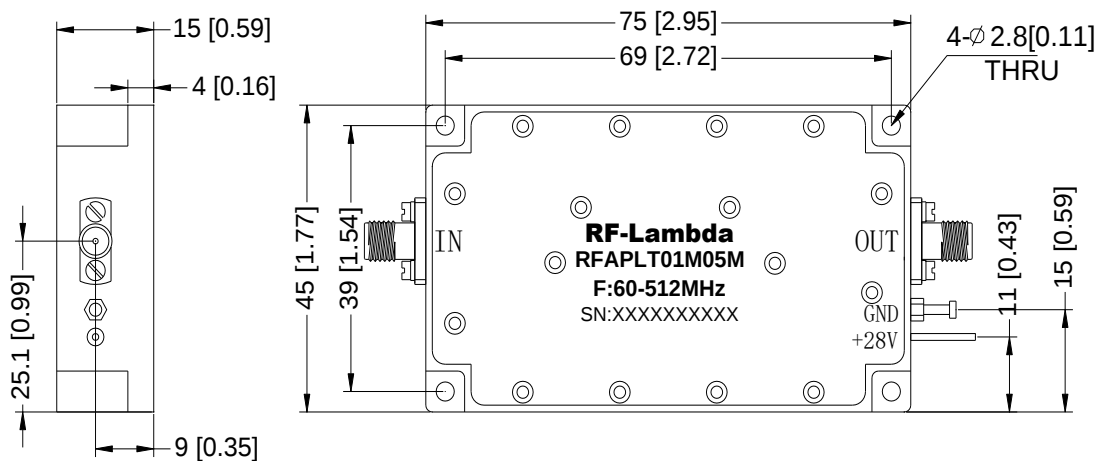
Power Output VS Power Input





Outline Drawing:

All Dimensions in mm [inches] Tolerance ± 0.2 [0.008]



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.

Input Over Drive Front End Protector 60 - 512MHz