



RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

RFPLT01M20GG

Ultra Wide Band Power Limiter 0.05 - 21GHz



Features

- Ultra Wide Band Operation 0.05-21GHz
- Passive, High Isolation Limiter
- Low Insertion Loss and Good Return Loss
- High Power Handle Capability up to 10W
- Customization available upon request

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

Parameters	Min.	Typ.	Max.	Units
Frequency Range	0.05		21	GHz
CW Input Power			36	dBm
Peak Power Handling (pulsed : PW = 100 us, Duty Cycle = 10%)			40	dBm
Insertion Loss		1.2	1.3	dB
VSWR		1.6	1.8	: 1
Flat Leakage Power at PIN > 30 dBm		18	20	dBm
Peak Power Leakage		20	22	dBm
Weight	1.06			ounces
Input / Output Connectors	SMA-Female			
Material	Aluminum			
Finish	Gold Plated			

Environmental Specifications

Operational Temperature ($^{\circ}\text{C}$)	-40 to +85
Storage Temperature ($^{\circ}\text{C}$)	-50 to +125
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft .1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH at 40 deg c
Shock	20G for 11msec half sine wave, 3 axis both directions

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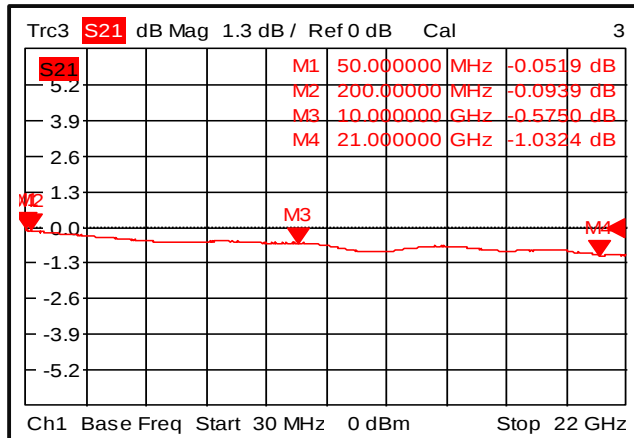
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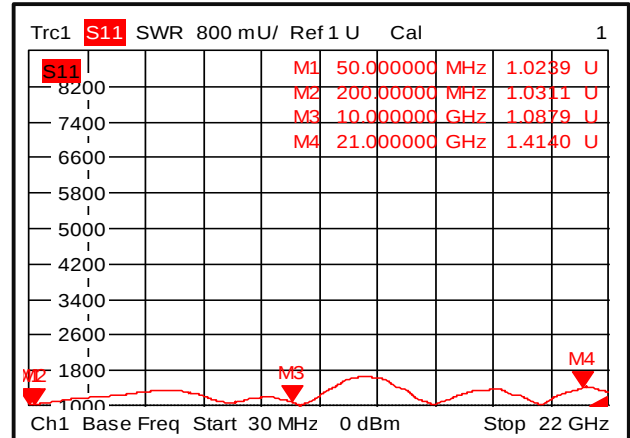
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Typical Performance Plots

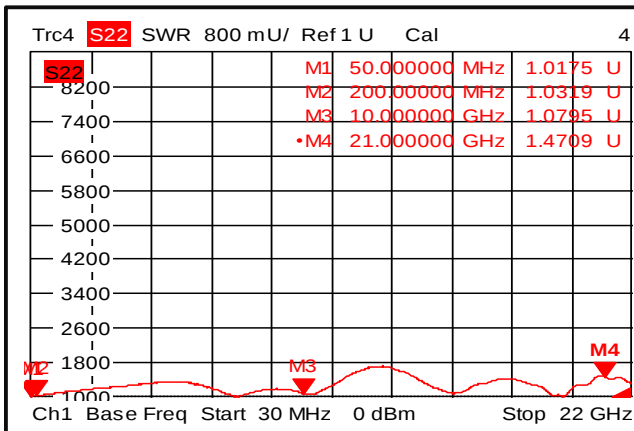
Insertion Loss @+25°C



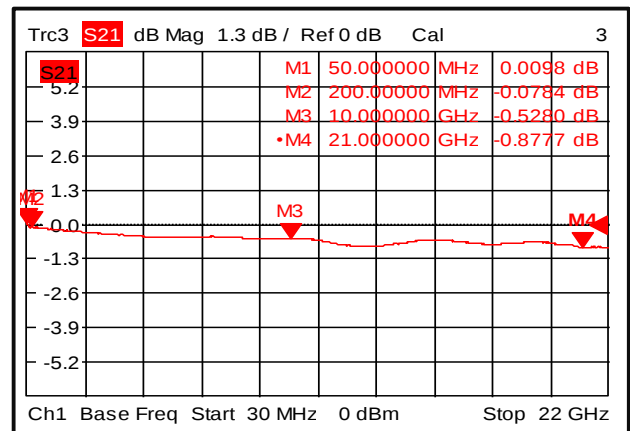
Input VSWR @+25°C



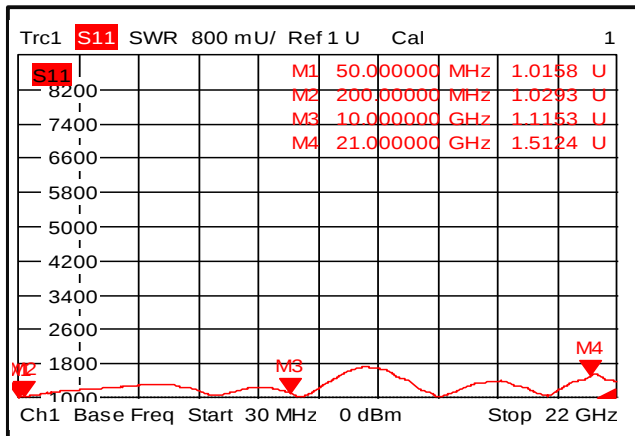
Output VSWR @+25°C



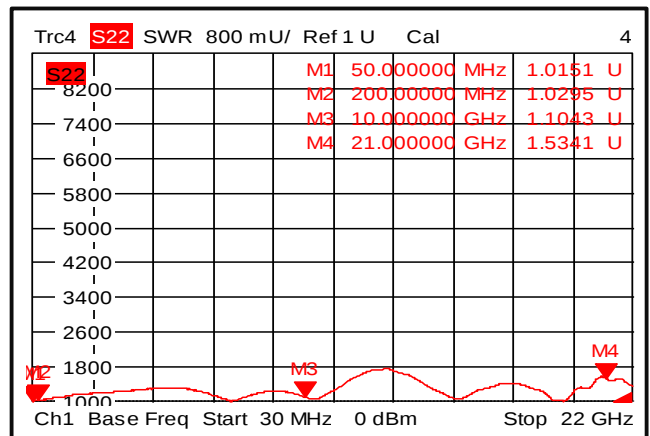
Insertion Loss @-45°C



Input VSWR @-45°C



Output VSWR @-45°C



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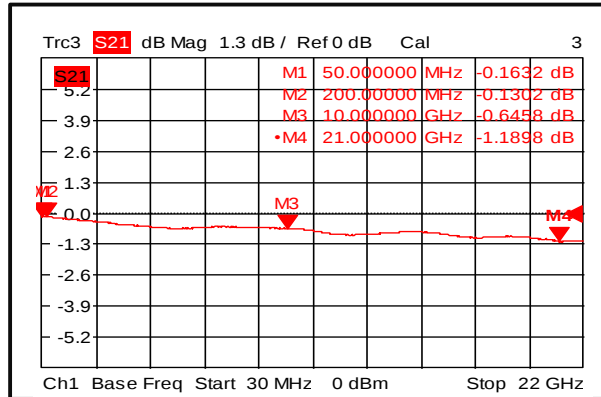


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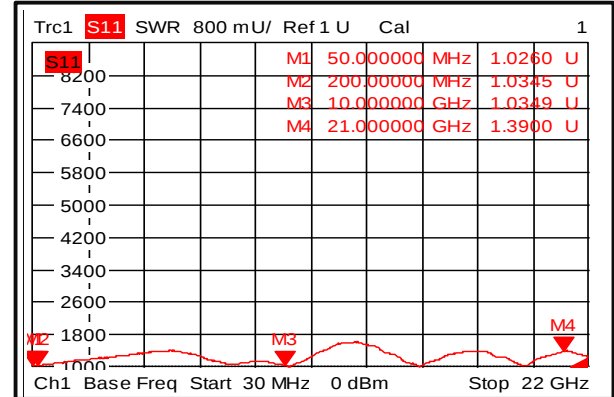
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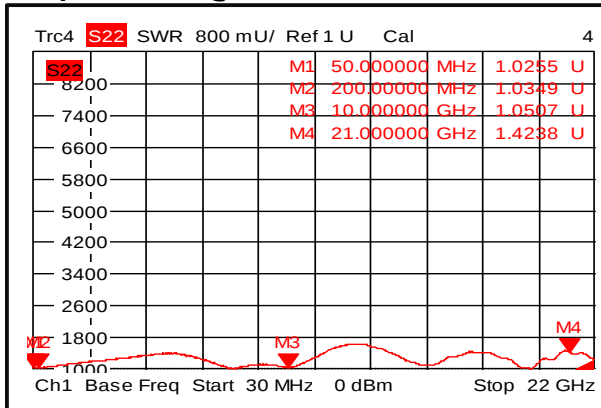
Insertion Loss @+85°C



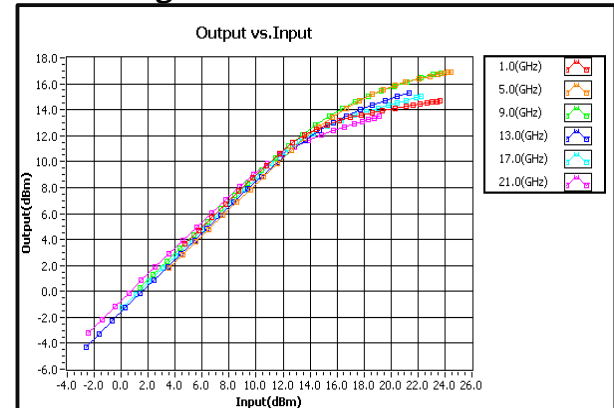
Input VSWR @+85°C



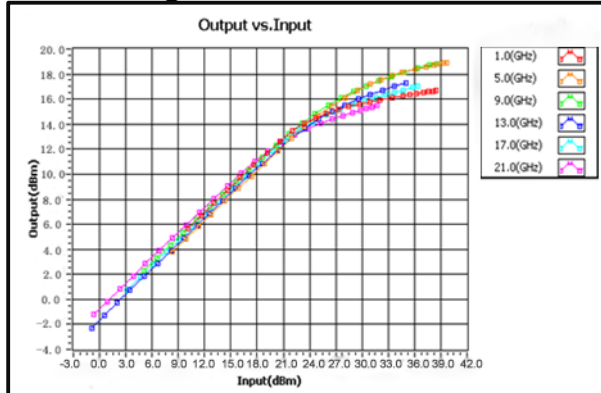
Output VSWR @+85°C



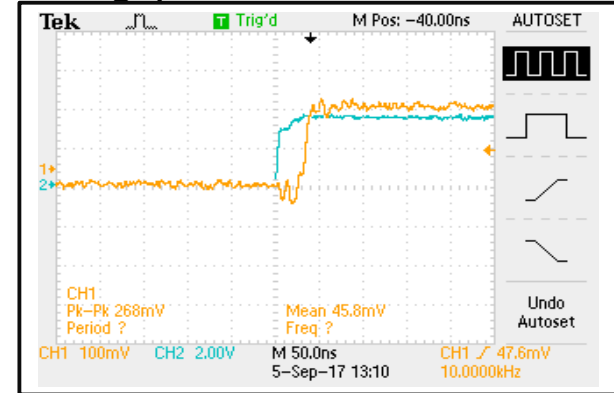
Flat Leakage Power



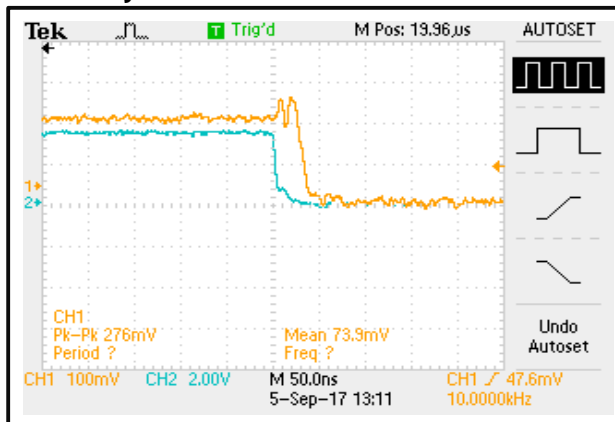
Peak Leakage Power



Limiting Speed



Recovery Time



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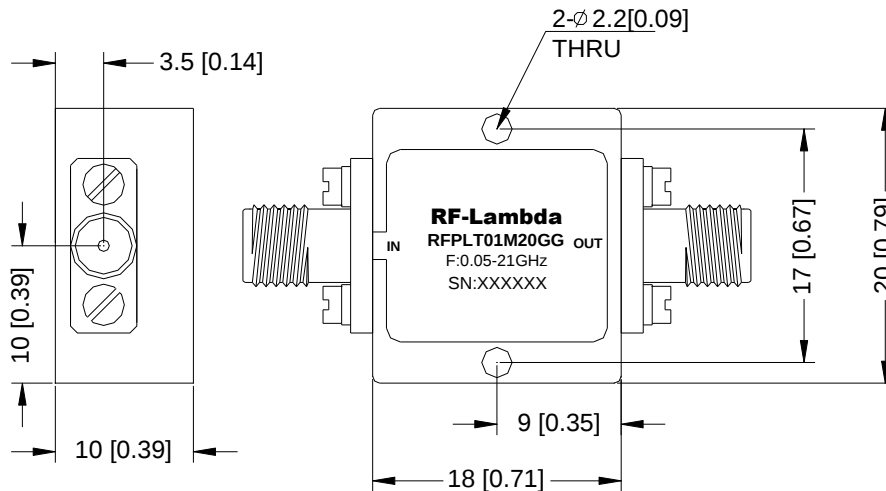
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Outline Drawing:

All Dimensions in mm [inches]

Tolerance ± 0.1 [0.004]



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