

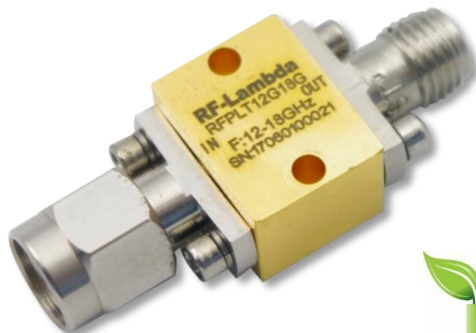


RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

RFPLT12G18G

Wideband Power Limiter 12 - 18GHz



Features

- Wide Band Operation 12-18GHz
- Passive, High Isolation Limiter
- Low Insertion Loss and Good Return Loss
- High Power Handling Capability up to 6W
- Customization available upon request

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

Parameters	Min.	Typ.	Max.	Units
Frequency Range	12		18	GHz
CW Input Power			6	CW
Peak Power (30us with 5% duty cycle)			20	W
Insertion Loss		1.8	2.2	dB
VSWR		1.5	1.8	: 1
Flat Leakage		15	17	dBm
Peak Power Leakage			30	dBm
Weight	0.35			Ounces
Input / Output Connectors	SMA-Male / SMA-Female			
Material	Aluminum			
Finish	Gold Plated			

Environmental Specifications

Operational Temperature ($^\circ\text{C}$)	-45 to +85
Storage Temperature ($^\circ\text{C}$)	-55 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 35 $^\circ\text{C}$, 95%RH at 40 $^\circ\text{C}$
Shock	20G for 11msec half sine wave, 3 axis both directions

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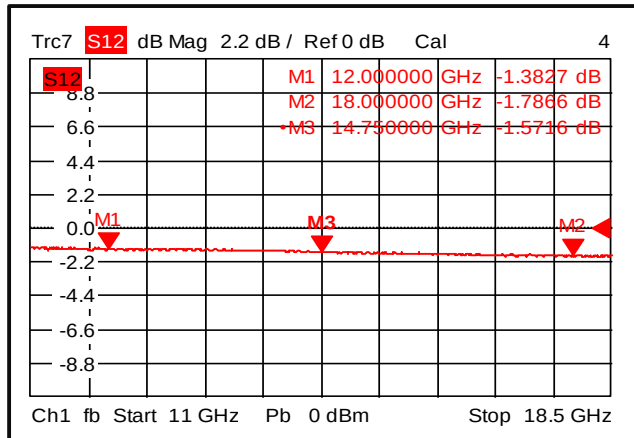
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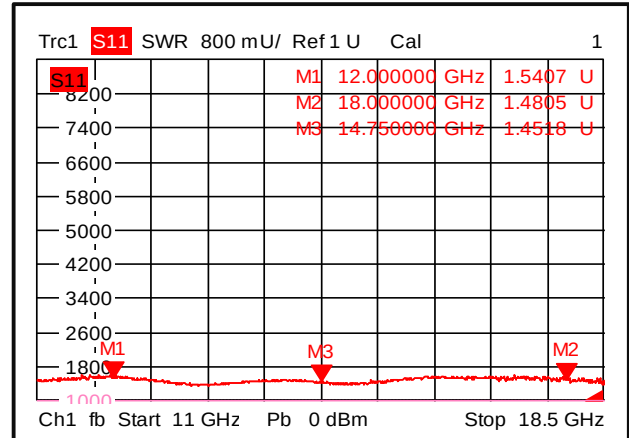
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Typical Performance Plots

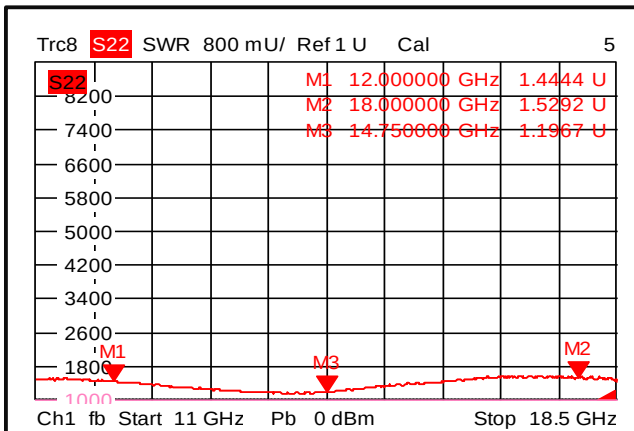
Insertion Loss @+25°C



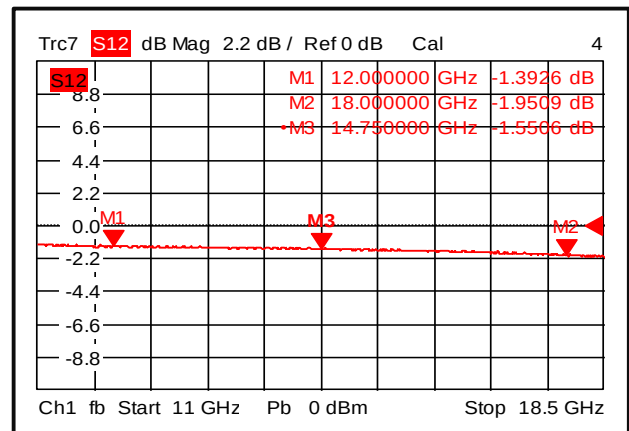
Input VSWR @+25°C



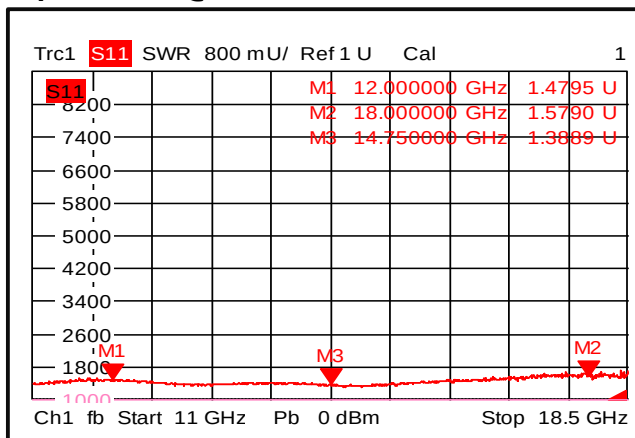
Output VSWR @+25°C



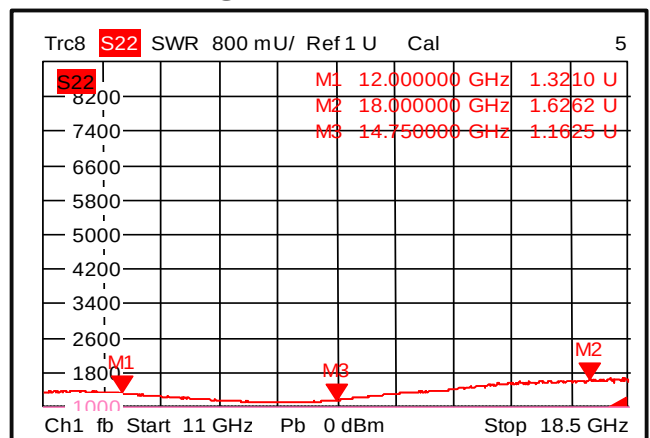
Insertion Loss @-45°C



Input VSWR @-45°C



Output VSWR @-45°C



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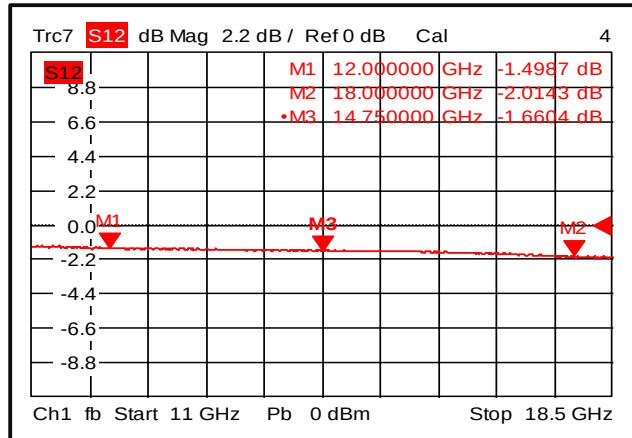


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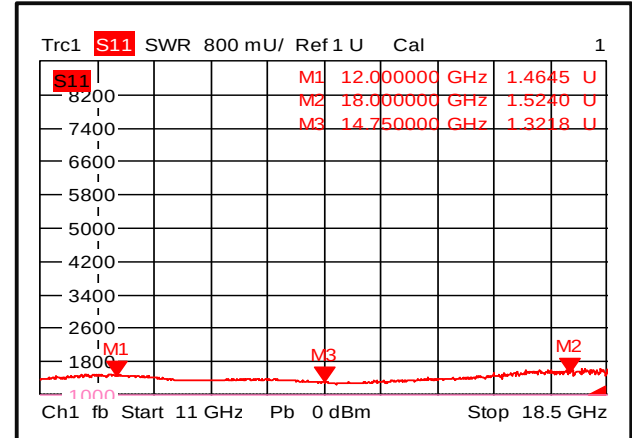
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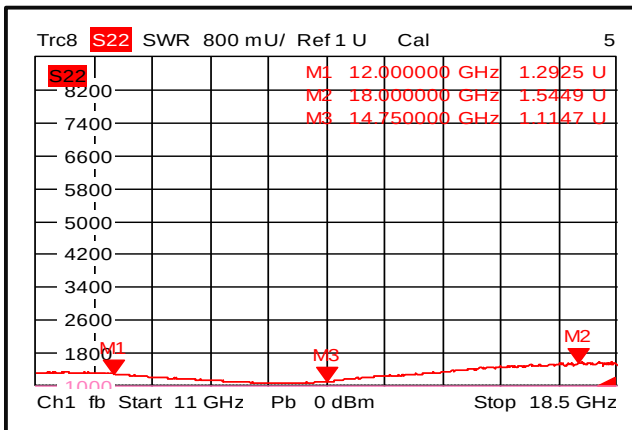
Insertion Loss @+85°C



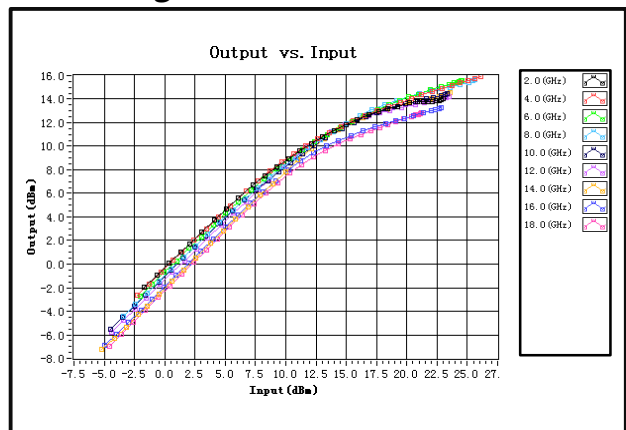
Input VSWR @+85°C



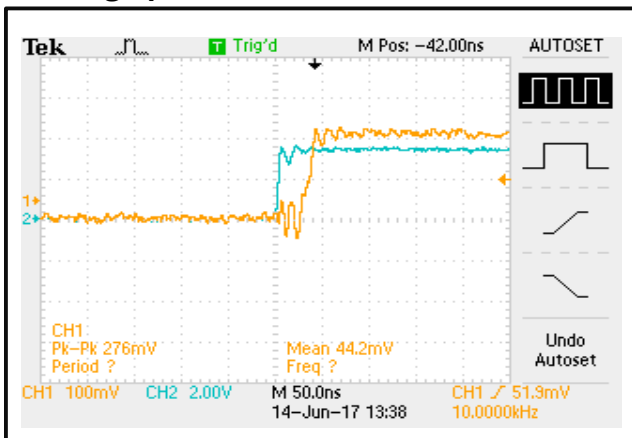
Output VSWR @+85°C



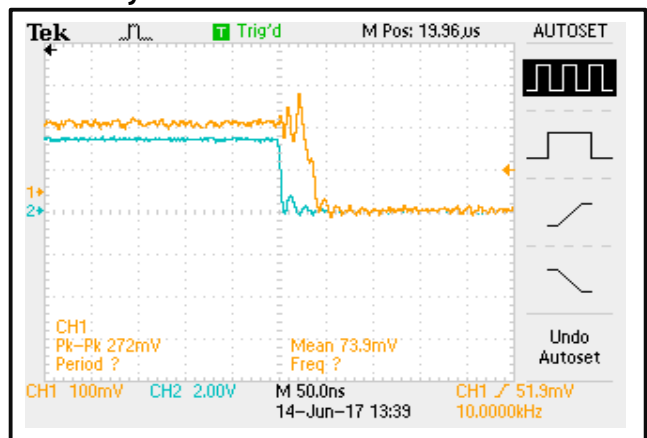
Flat Leakage Power



Limiting Speed



Recovery time



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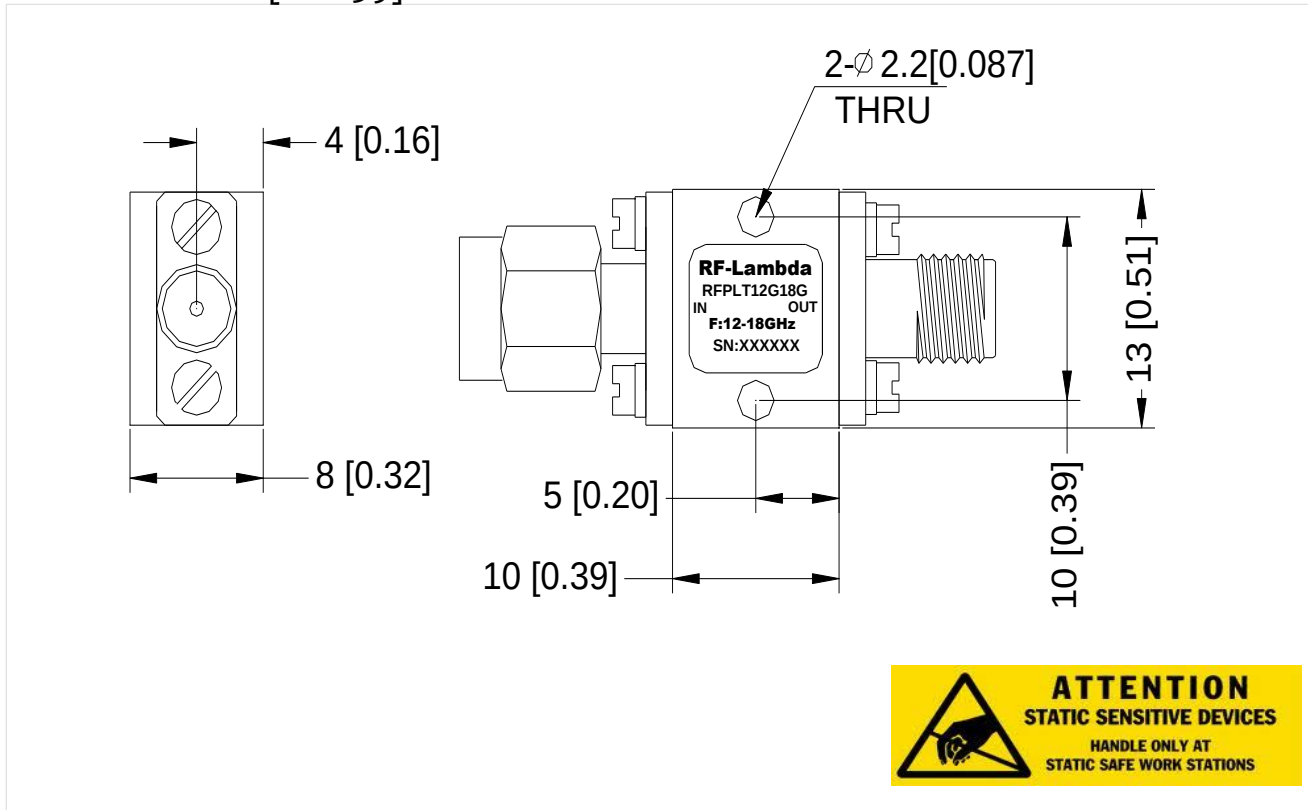
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Outline Drawing:

All Dimensions in mm [inches]

Tolerance ± 0.1 [0.0039]



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