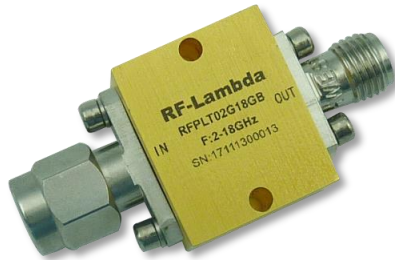




Wideband Power Limiter 2 - 18GHz



Features

- Wide Band Operation 2-18GHz
- Passive, High Isolation Limiter
- Low Insertion Loss
- High Power Handling
- Customization available upon request

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

Parameter	Min.	Typ.	Max.	Units
Frequency Range	2		18	GHz
Input Power (CW)			6	W
Peak Power (30us with 5% duty cycle)			20	W
Insertion Loss		1.5	2.0	dB
VSWR		1.6	2.0	: 1
Flat Leakage		17	20.5	dBm
Peak Power Leakage		20	25	dBm
Weight	0.71			Ounces
Input / Output Connectors	SMA - Male / SMA - Female			
Material	Aluminum			
Finish	Gold Plating			

Environmental Specifications and Test Standards

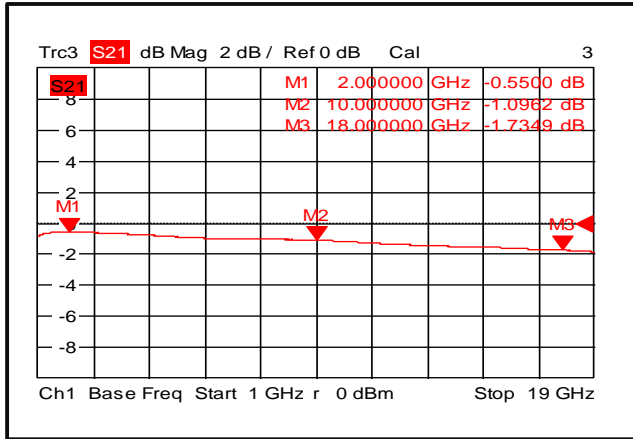
Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-45°C~+85°C
Storage Temperature		-55°C~+125°C
Thermal Shock		1 Hour@ -45°C → 1 Hour @ +85°C (5 Cycles)
Random Vibration		Acceleration Spectral Density 6 (m/s) Total 92.6 RMS
Electrical & Temperature Burn In		Temperature +85°C for 72 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		Standard: 30,000 Ft (Epoxy Sealed Controlled Environment) Optional: Hermetically Sealed (60,000 ft. 1.0 PSI min)
Hermetically Sealed (Optional)	MIL-STD-883	MIL-STD-883 (For Hermetically Sealed Units)

Wideband Power Limiter 2 - 18GHz

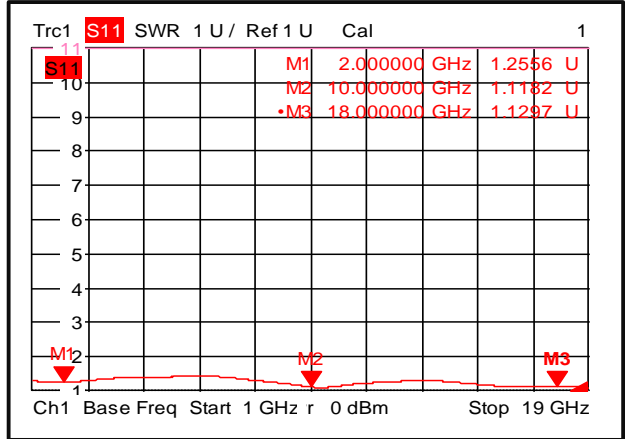


Typical Performance Plots

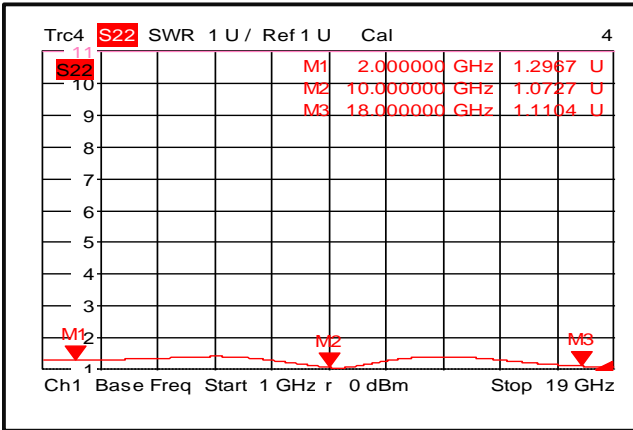
Insertion Loss @+25°C



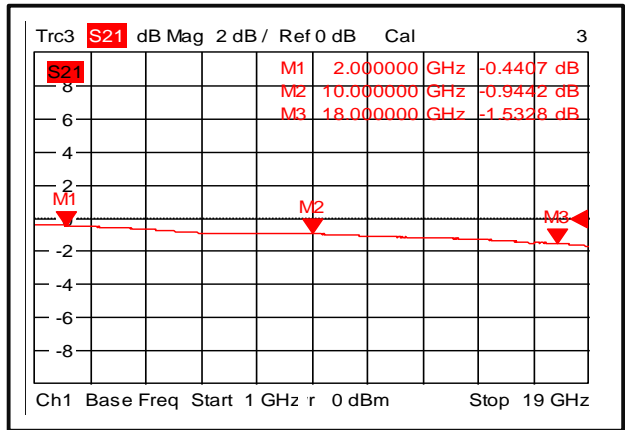
Input VSWR @+25°C



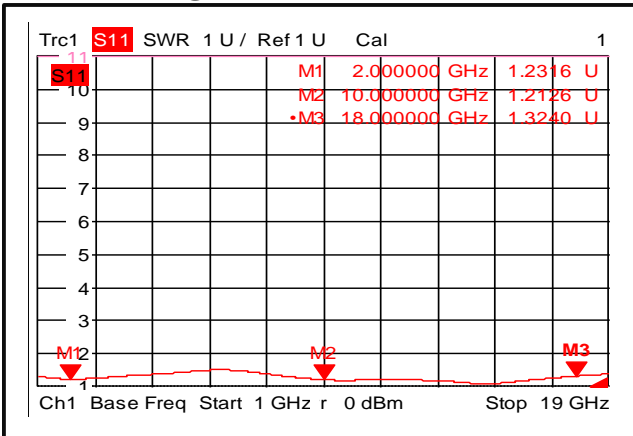
Output VSWR @+25°C



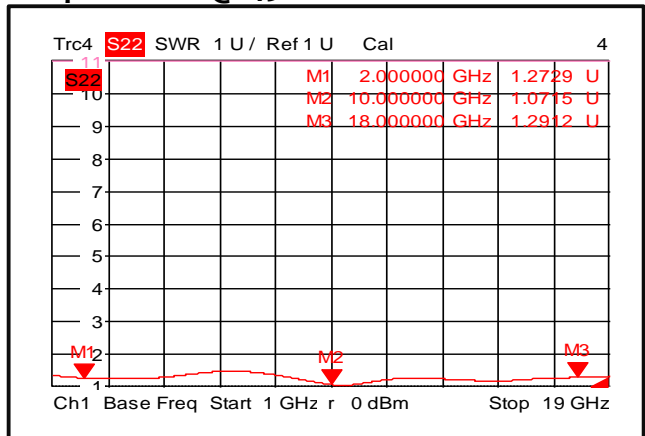
Insertion Loss @-45°C



Input VSWR @-45°C

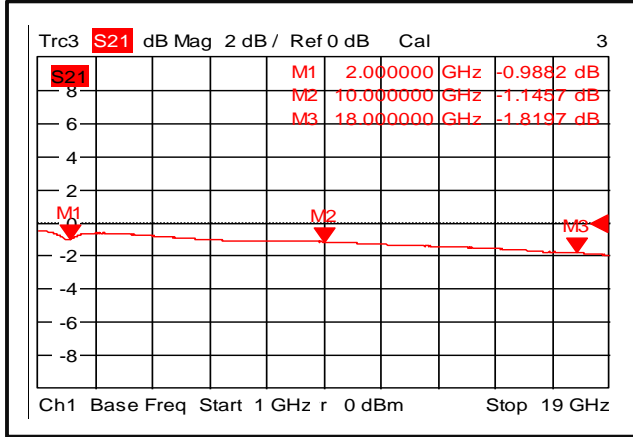


Output VSWR @-45°C

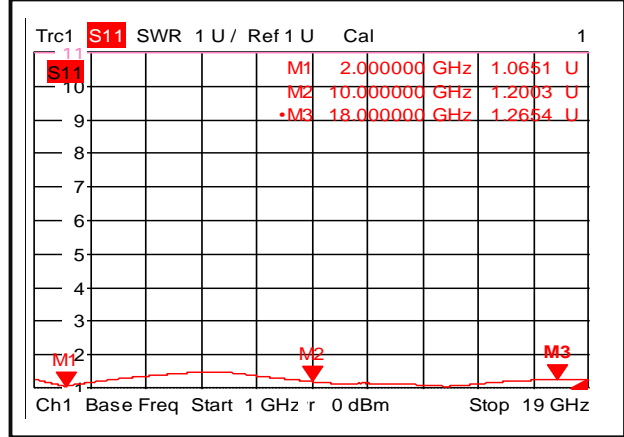




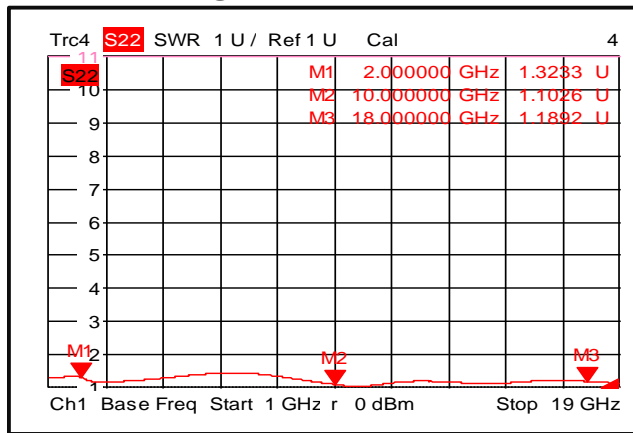
Insertion Loss @+85°C



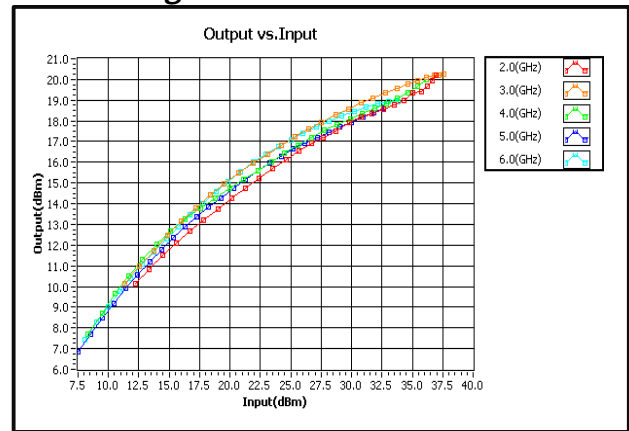
Input VSWR @+85°C



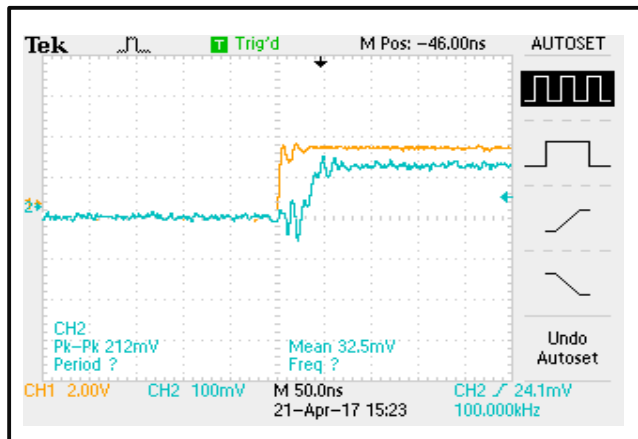
Output VSWR @+85°C



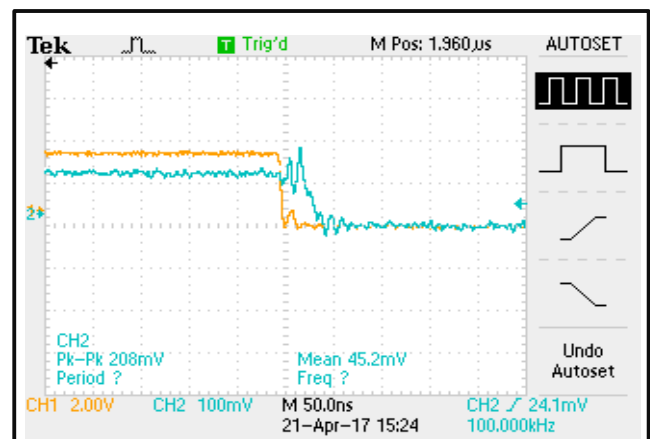
Flat Leakage Power



Limiting Speed



Recovery Time

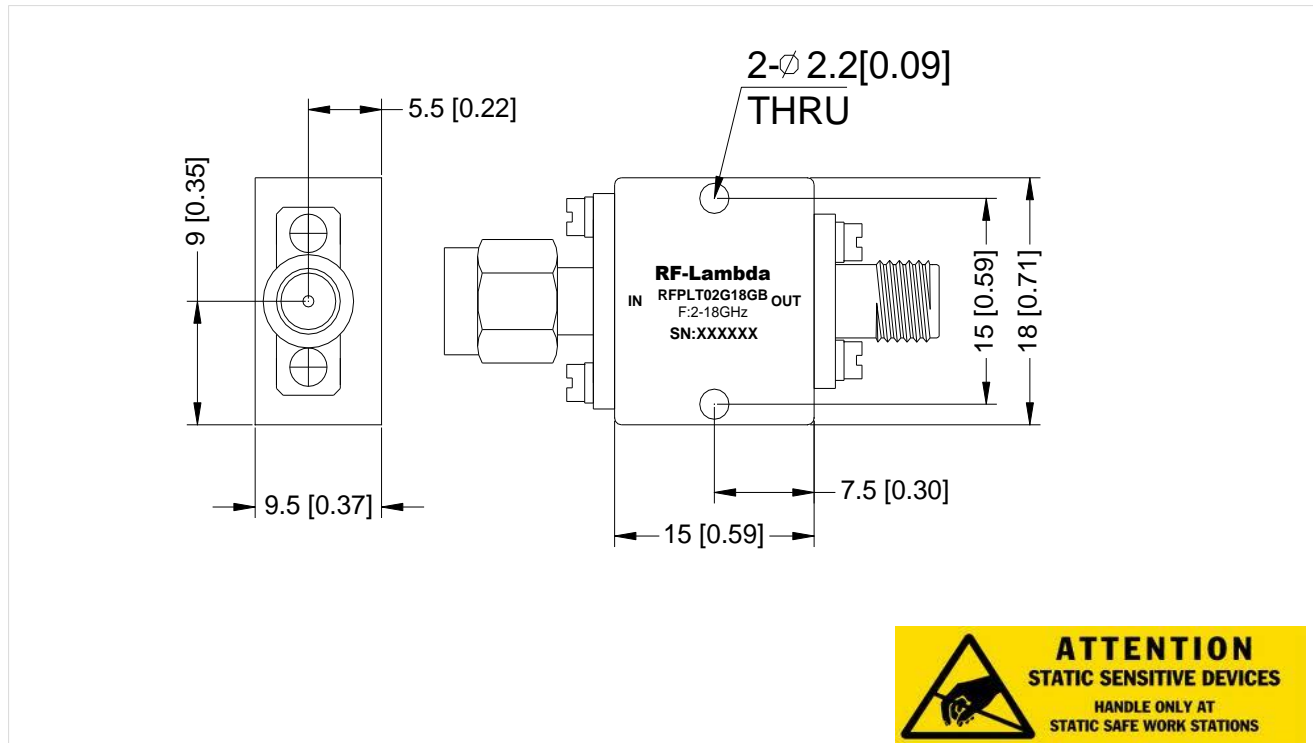




Outline Drawing:

All Dimensions in mm [inches]

Tolerance ± 0.1 [0.004]



Wideband Power Limiter 2 - 18GHz

Important Notice

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