



RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

RFPLT12G18GH

12-18GHz Front End Input Over Drive Protection Module



Features

- Wide Band operation 12-18GHz
- Active, High Isolation Limiter
- Low Insertion Loss and Good Return Loss
- High Power Handling Capability up to 1W
- Customization available upon request

Electrical Specifications, $T_A=25^\circ\text{C}$, $V_{dd}=+5\text{V}$.

Parameters	Min.	Typ.	Max.	Units
Frequency Range	12		18	GHz
CW Input Power		1		CW
Peak Power (<10% <2us)		1		W
Insertion Loss		1.6	2	dB
VSWR		1.43	1.5	: 1
Flat Leakage @ PIN ≤ 30 dBm		-17	-15	dBm
Peak Power Leakage PIN ≤ 33 dBm (<10% <2us)		-14	-12	dBm
Operating Temperature	-45 to 85			$^\circ\text{C}$
Weight	1.76			ounces
Input / Output Connectors	SMA-Female / SMA-Female			
Material	Aluminum			
Finishing	Nickel Plating			

Environmental Specifications

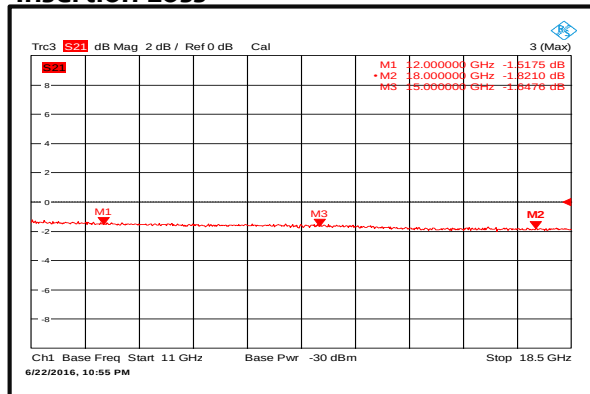
Operational Temperature	-45 to +85 $^\circ\text{C}$
Storage Temperature	-55 to +125 $^\circ\text{C}$
Altitude	30,000 ft. (Epoxy Sealed Controlled Environment)
	60,000 ft 1.0psi min (Hermetically Sealed Un-controlled Environment) (Optional)
Vibration	25g RMS (15 degree 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35 $^\circ\text{C}$, 95%RH at 40 $^\circ\text{C}$
Shock	20G for 11 msec half sine wave, 3 axis both directions

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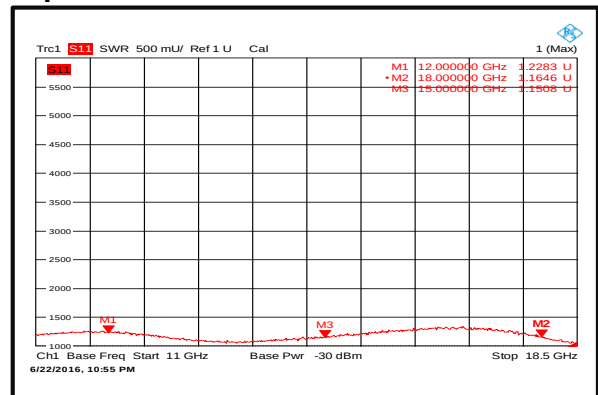


Typical Performance Plots

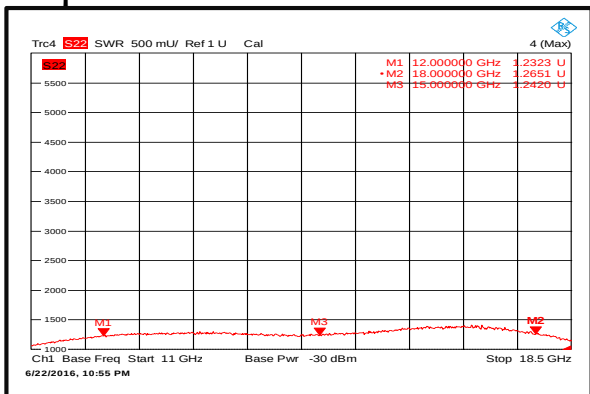
Insertion Loss



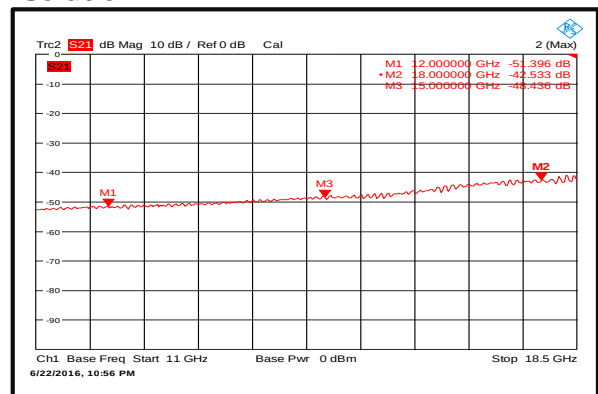
Input VSWR



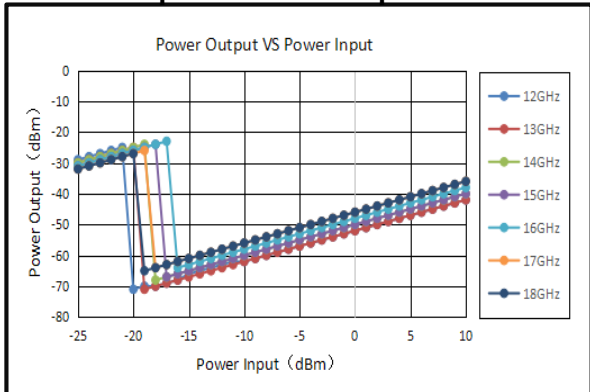
Output VSWR



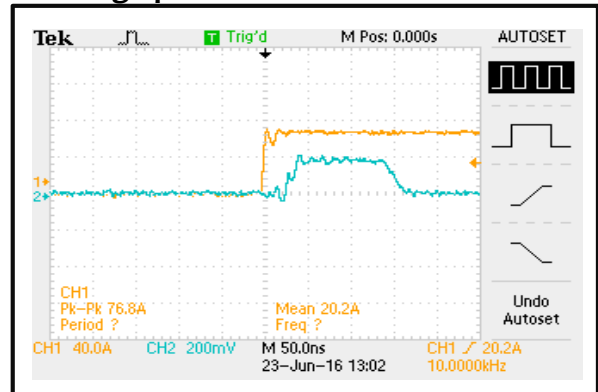
Isolation



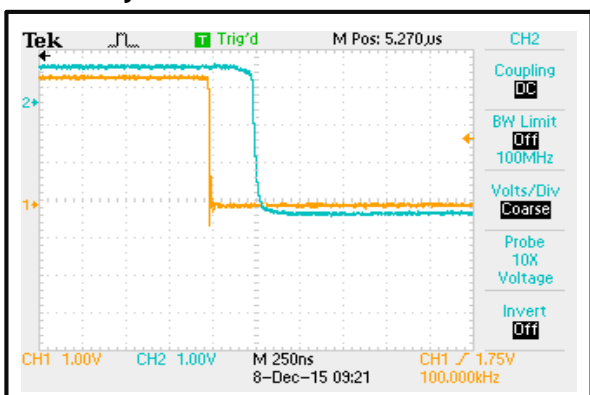
Power Output VS Power Input



Limiting Speed



Recovery Time





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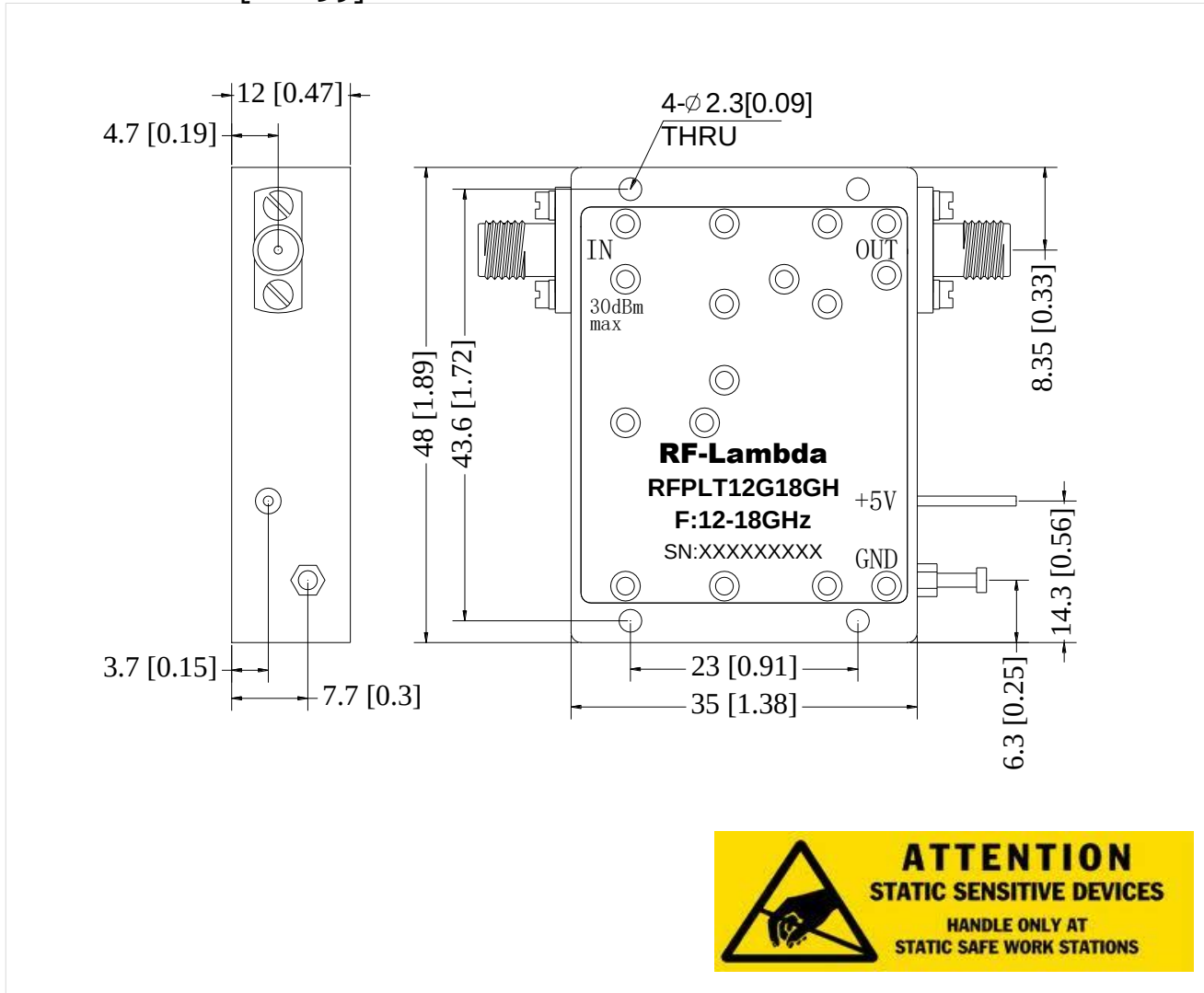
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Outline Drawing:

All Dimensions in mm [inches]

Tolerance ± 0.1 [0.0039]



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