



## 6-12GHz Front End Input Over Drive Protection Module



### Features

- Wide Band operation 6-12GHz
- 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	6		12	GHz
CW Input Power		1		CW
Peak Power (<10% <2us)		1		W
Insertion Loss		1.6	2	dB
VSWR		1.4	1.5	: 1
Flat Leakage @ Pin $\leq 30$ dBm		-17	-15	dBm
Peak Power Leakage Pin $\leq 33$ dBm (<10% <2us)		-14	-12	dBm
Operating Temperature	-45 to 85			$^\circ\text{C}$
Weight	1.76			ounces
Input / Output Connectors	SMA-Female			
Material	Aluminum			
Finishing	Nickel Plating			

### Environmental Specifications

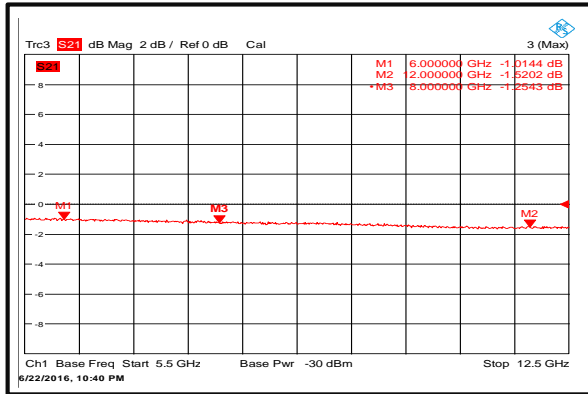
Operational Temperature	-45 to +85 $^\circ\text{C}$
Storage Temperature	-55 to +125 $^\circ\text{C}$
Altitude	30,000 ft. (Epoxy Sealed Controlled Environment)
	60,000 ft 1.0psi min (Hermetically Sealed Un-controlled Environment) (Optional)
Vibration	25g RMS (15 degree 2KHz) endurance, 1 hour per axis
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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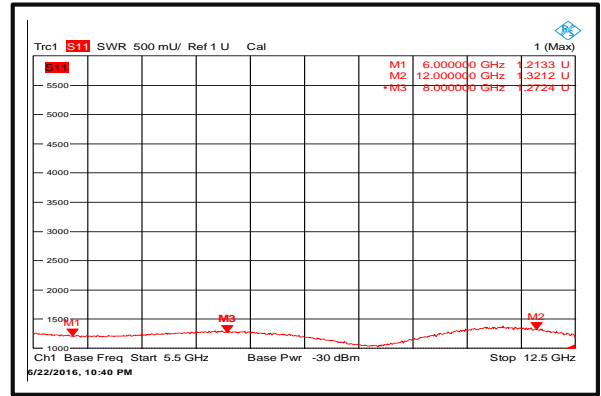


**Typical Performance Plots**

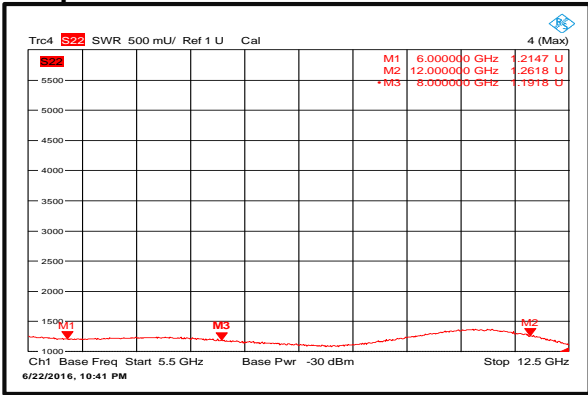
**Insertion Loss**



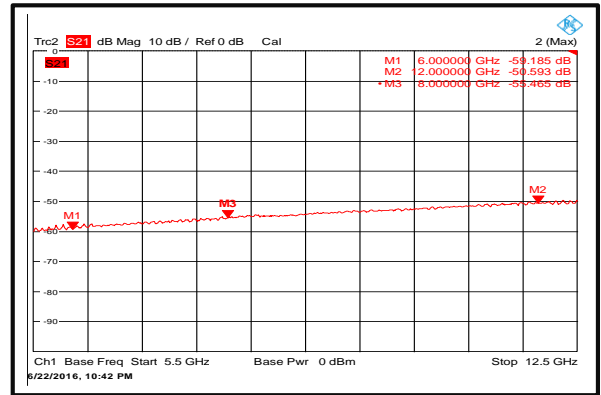
**Input VSWR**



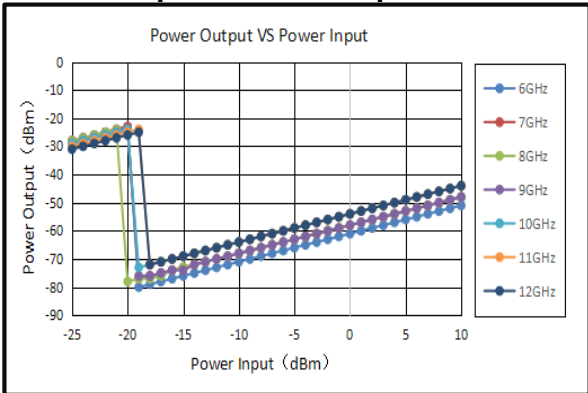
**Output VSWR**



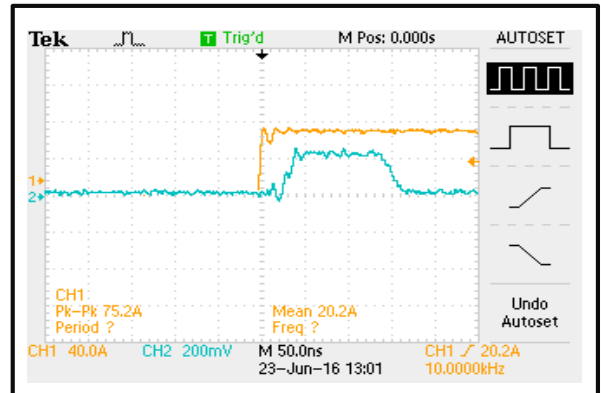
**Isolation**



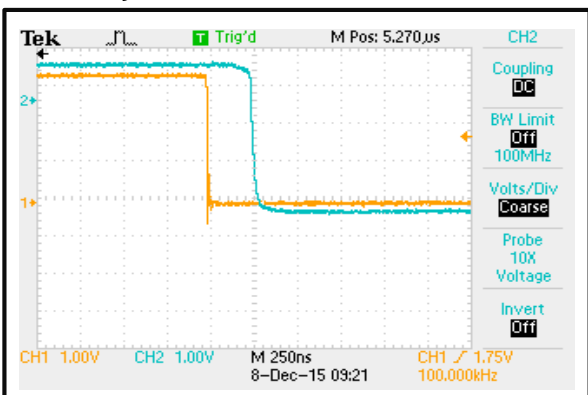
**Power Output VS Power Input**



**Limiting Speed**



**Recovery Time**



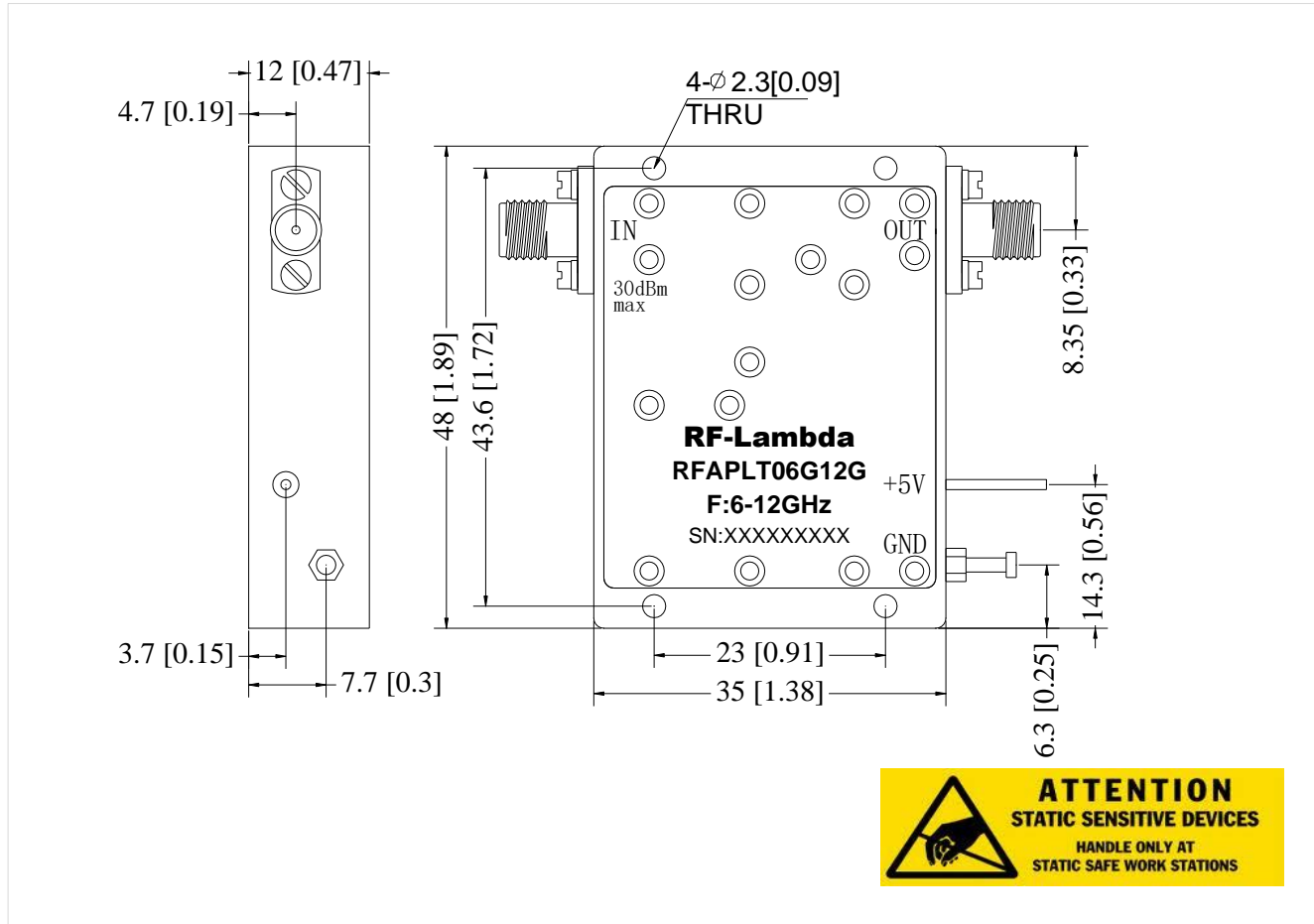
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**Outline Drawing:**

All Dimensions in mm [inches]

Tolerance  $\pm 0.1$  [0.0039]



**Important Notice**

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