



# 12-18GHz Input Over Drive Front End Protector

## Features

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



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	
Flat Leakage @ PIN ≤30 dBm		-17	-15	dBm
Peak Power Leakage at PIN ≤33 dBm (<10% <2us)		-14	-12	dBm
Operating Temperature	-45 to 85			°C
Weight	1.76			ounces
Input / Output Connectors	SMA-Female/SMA-Female			
Material	Aluminum			
Finishing	Nickel Plating			

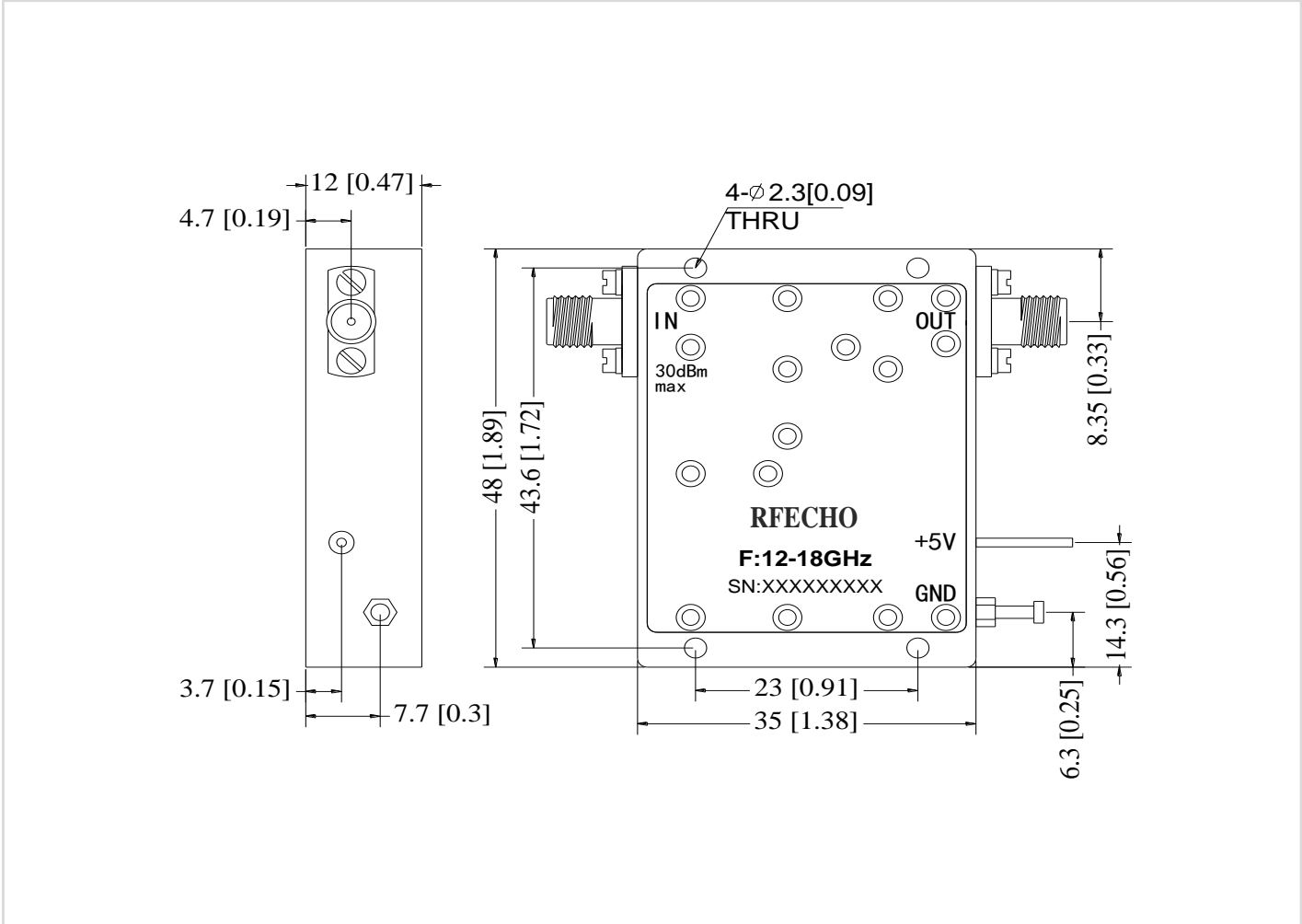
## Environmental Specifications

Operational Temperature (°C)	-45 to +85
Storage Temperature (°C)	-55 to +125
Altitude	35,000 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°C
Shock	20G for 11msec half sine wave,3 axis both directions

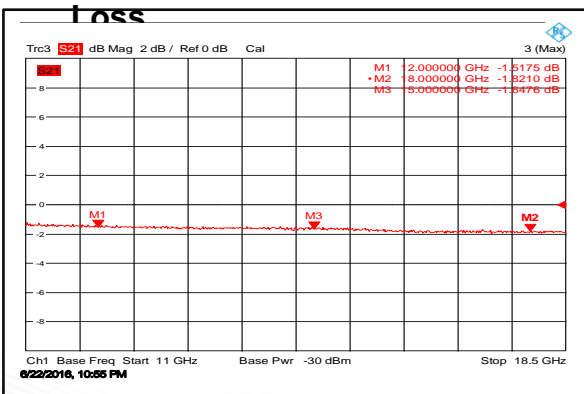


### Outline Drawing:

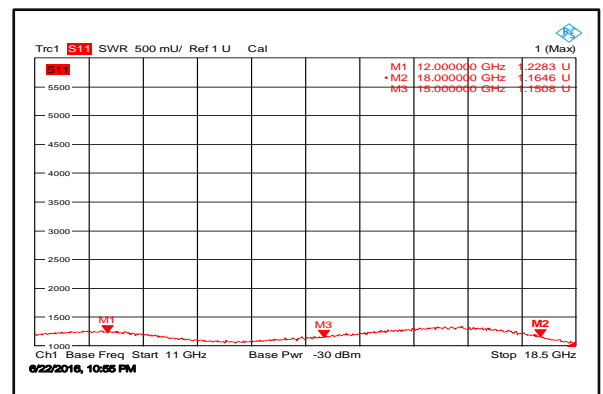
All Dimensions in mm ( inches ) Tolerance  $\pm 0.15$  ( 0.006 )



### Insertion Loss

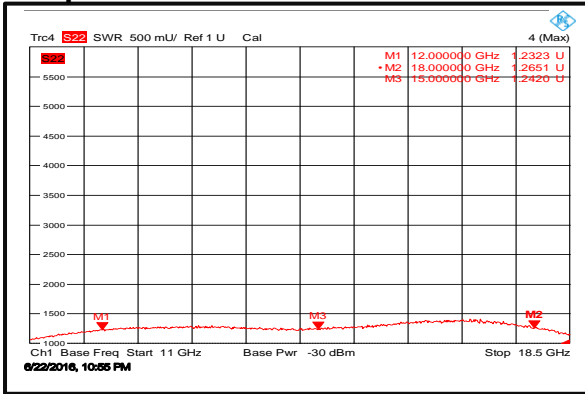


### Input VSWR

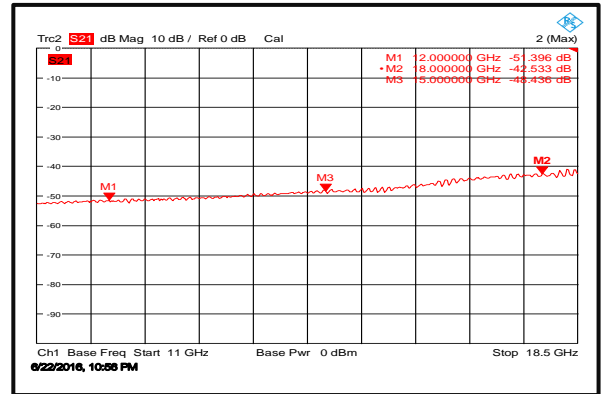




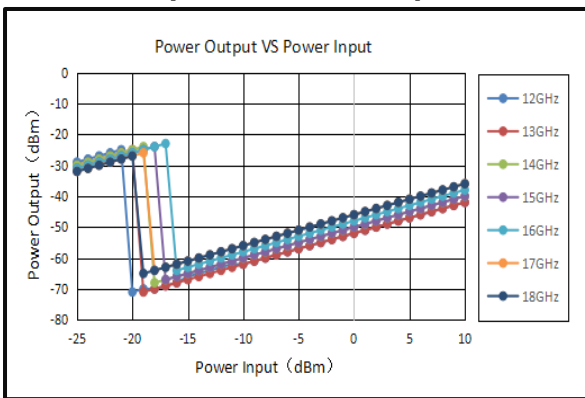
### Output VSWR



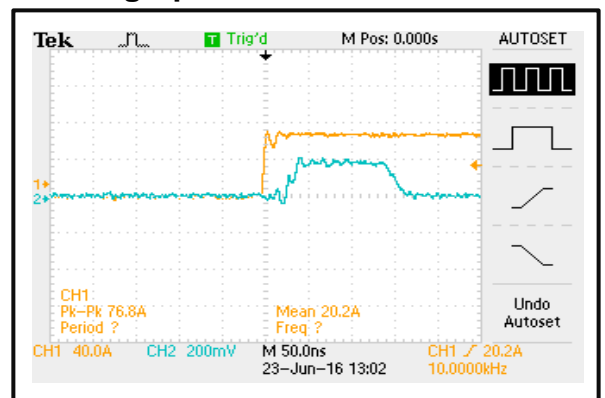
### Isolation



### Power Output VS Power Input



### Limiting Speed



### Recovery time

