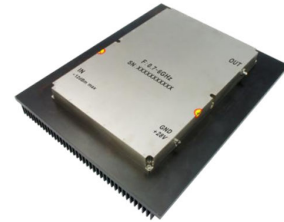




Wide Band Power Amplifier 0.7GHz~6GHz



Features

- Gain: 34dB Typical
- P1dB Output Power: 44dBm Typical
- Supply Voltage: +28V @ 1.3A
- 50 Ohm Matched Input / Output

Typical Applications

- Wireless Infrastructure
- 5G communication
- Test and measurement Instrument

RF Microwave & VSAT
Fiber Optics

Parameter	Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range	0.7		3	3		6	GHz
Gain	30	34		29	32		dB
Gain Flatness		±2.0			±2.0		dB
Gain Variation Over Temperature (-40°C ~+70°C)		±1.5			±1.5		dB
Input VSWR		1.5			1.5		:1
Output Power for 1 dB Compression (P1dB)	43	44		41	42		dBm
Saturated Output Power (Psat)		45			43		dBm
Output Third Order Inter modulation Product (IM3)		/			/		dBm
Supply Current (Idd) (Vcc=+28V)		1.3	6		1.3	6	A
Isolation S12		-60			-60		dB

Weight	317.46ounces	Impedance	50ohms
Input / Output Connectors	SMA-Female	Material	Aluminum
Finishing	Standard: Gold 40 micron; Nickel 220 micron thickness	Package Sealing	Epoxy Sealing (Standard)
	Option: Gold 80 micron; Nickel 180 micron thickness		Hermetically Seal (Option with extra charge)



Absolute Maximum Ratings

Operating Voltage	+29V
RF Input Power (RFIN)	+18dBm

Biasing Up Procedure

Step 1	Connect Ground Pin
Step 2	Connect input and output
Step 3	Connect +28V biasing

Power OFF Procedure

Step 1	Turn off +28V biasing
Step 2	Remove RF connection
Step 3	Remove Ground

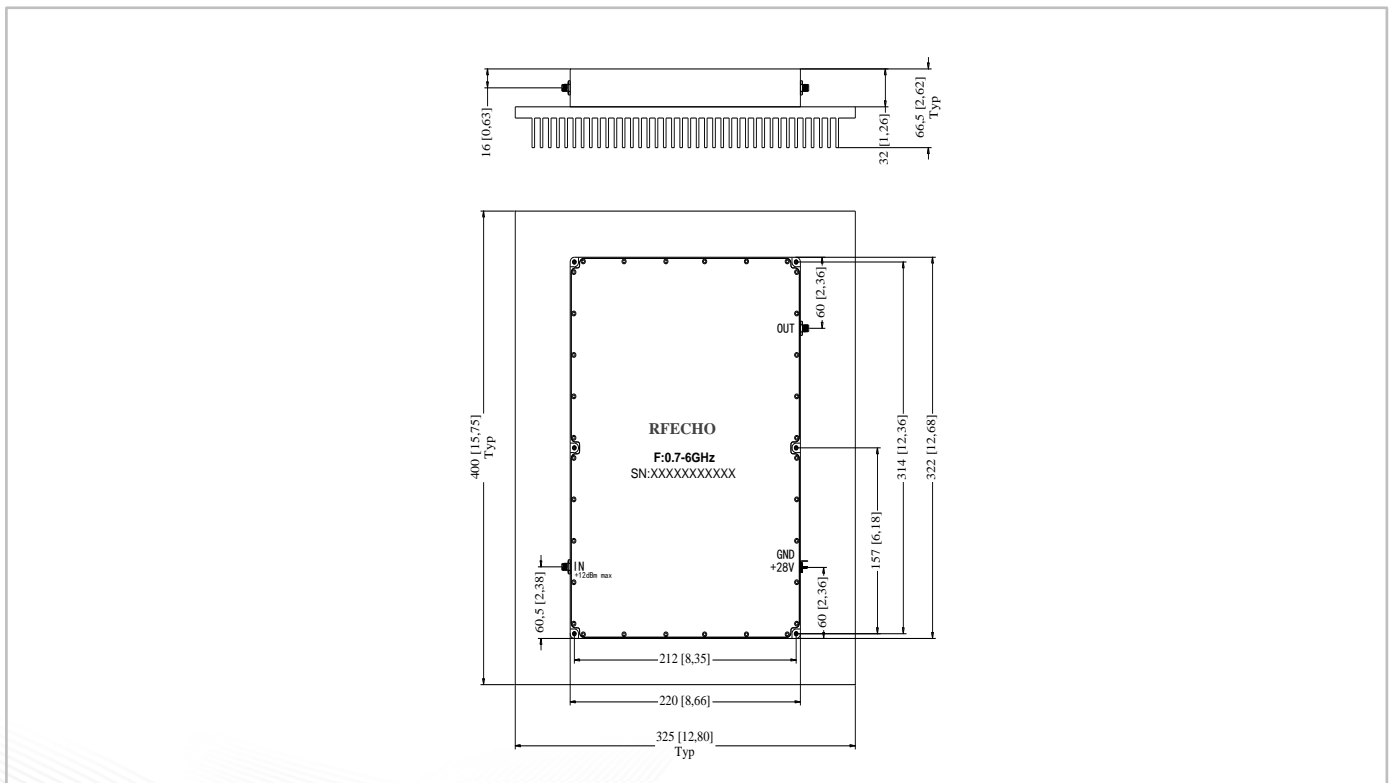
Environmental Specifications

Operational Temperature	-40°C~+70°C
Storage Temperature	-50°C~+105°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 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35°C, 95%RH at 40°C
Shock	20G for 11msec half sine wave, 3 axis both directions

Outline Drawing:

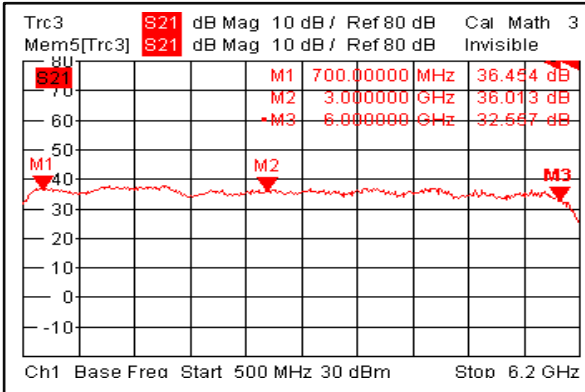
All Dimensions in mm (inches)

Heat Sink required during operation(Sold Separately)

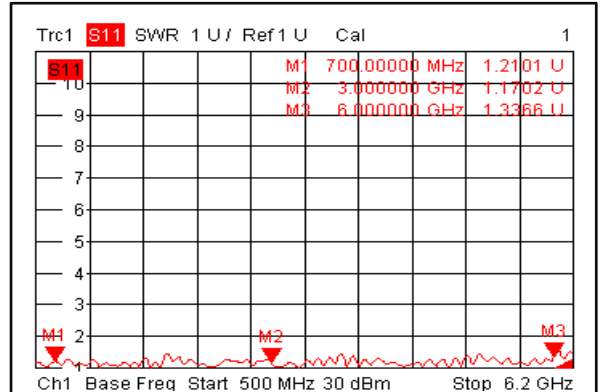




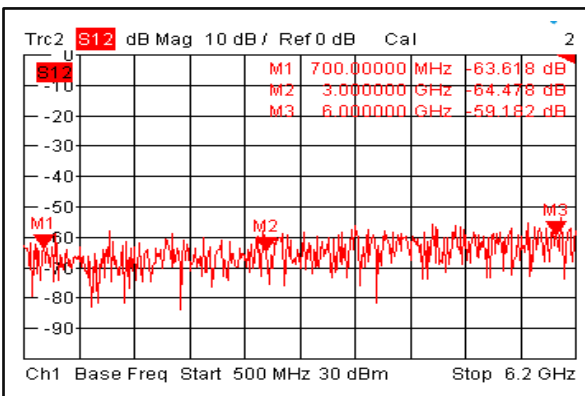
Gain



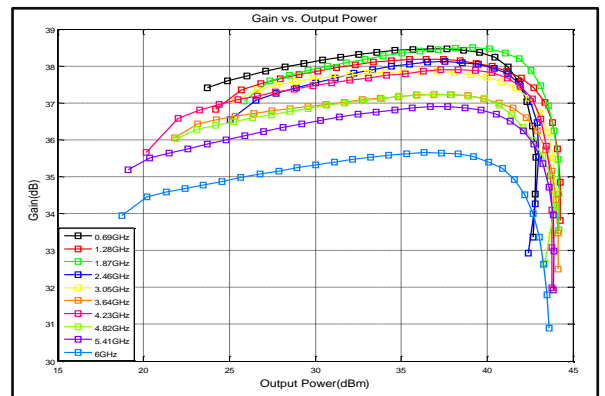
Input VSWR



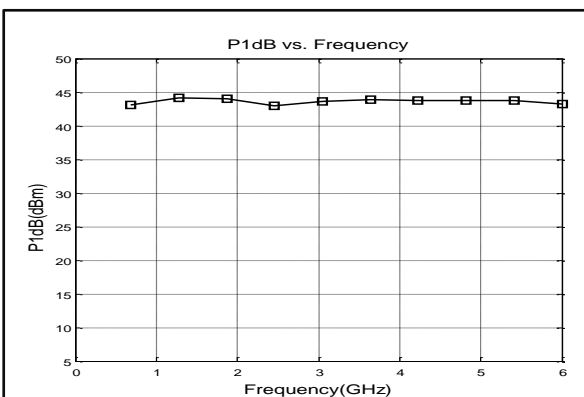
Isolation



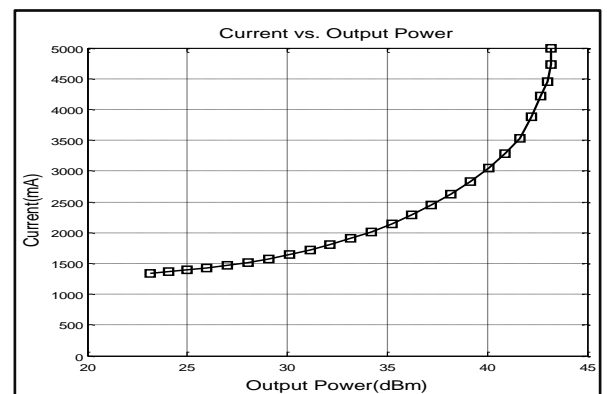
Gain vs. Output Power



P1dB vs. Frequency

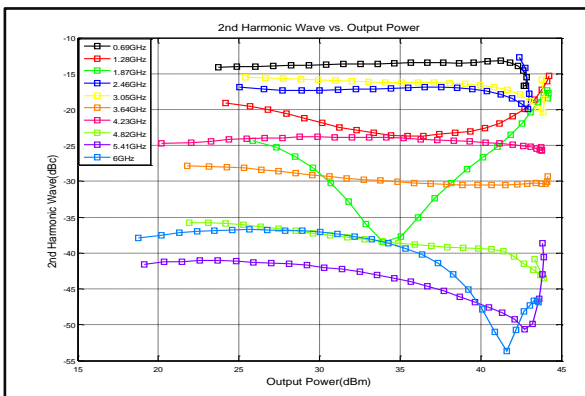


Current

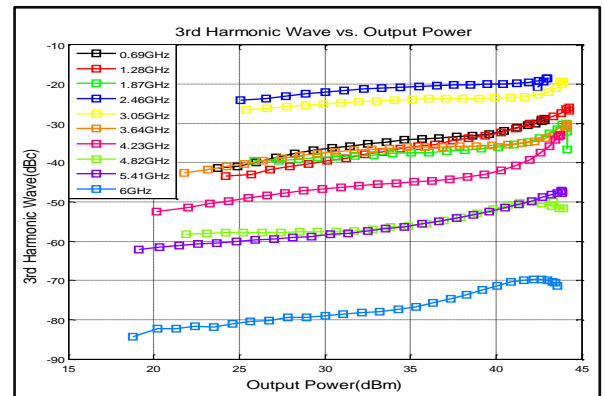




2nd Harmonic Wave Output Power



3rd Harmonic Wave Output Power



4th Harmonic Wave Output Power

