

Model:TLPA0.38G6G-30-37

Power Amplifier

0.38-6GHz,Gain:35dB,Psat:37dBm

Feature:

- Ultra Wide Band: 0.38-6 GHz
- Gain: 35 dB Min
- Psat Output Power: 37 dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	0.38-6			GHz
Gain	35			dB
Gain Flatness		±2.5	±4.0	dB
Output P1dB		35		dBm
Output Psat	37			dBm
Supurious		-60		dBc
Harmonic		-15		dBc
Input VSWR		1.5	2.5	:1
DC Voltage	+30			V DC
DC Supply Current	2			A
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	100*70*15	mm
Weight	/	g

Absolute Maximum Ratings:

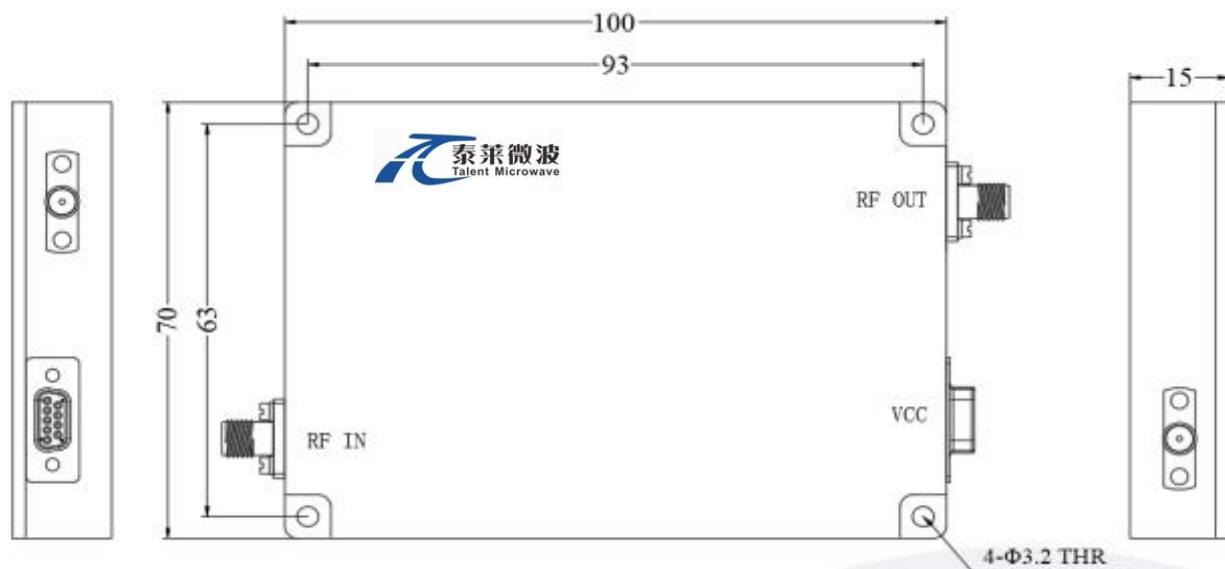
Parameter	Value
Supply Bias Voltage	+32 V
RF Input Power	+8 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



***Heat Sink Required During Operation



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

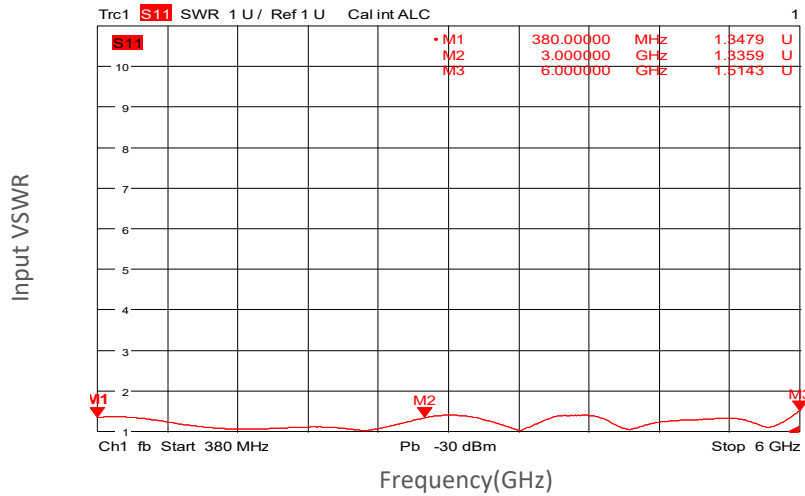
Parameter	Min	Typ	Max	Units
Operating Temperature	-30		+70	°C
Non-operating Temperature	-45		+85	°C
Relative humidity	100%RH at 35°C, 95%RH at 40°C			%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	20g, 11ms, saw-tooth			
Shock(non operating)	20G for 11msc half sin wave, 3 axis both directions			

Ordering Information:

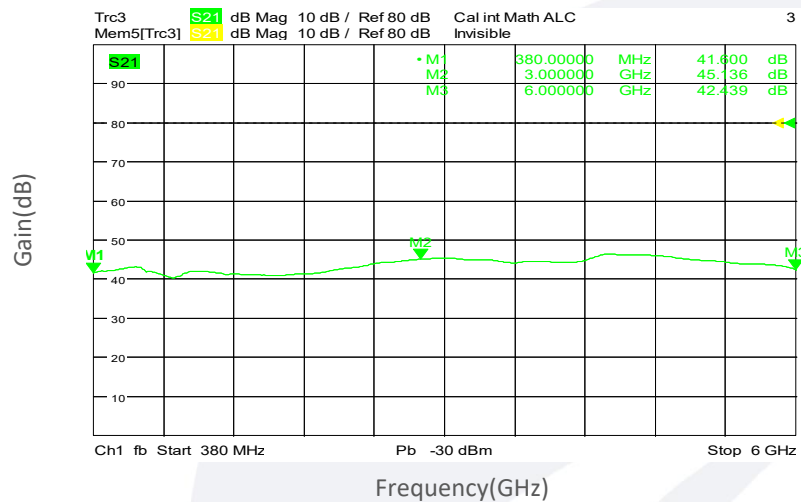
Part Number	Description	Revision
TLPA0.38G6G-30-37	Power amplifier 0.38-6GHz, Gain:35dB, Psat:37dBm, +30V DC, Without Heatsink	Rev.1.1
TLPA0.38G6G-30-37-HS	Power amplifier 0.38-6GHz, Gain:35dB, Psat:37dBm, +30V DC, With Heatsink	Rev.1.1

Typical Performance Data:

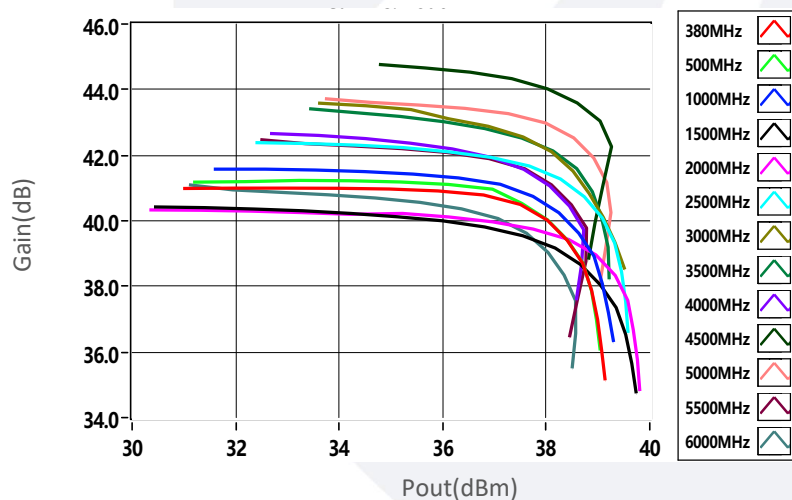
Input VSWR vs Frequency



Gain vs Frequency

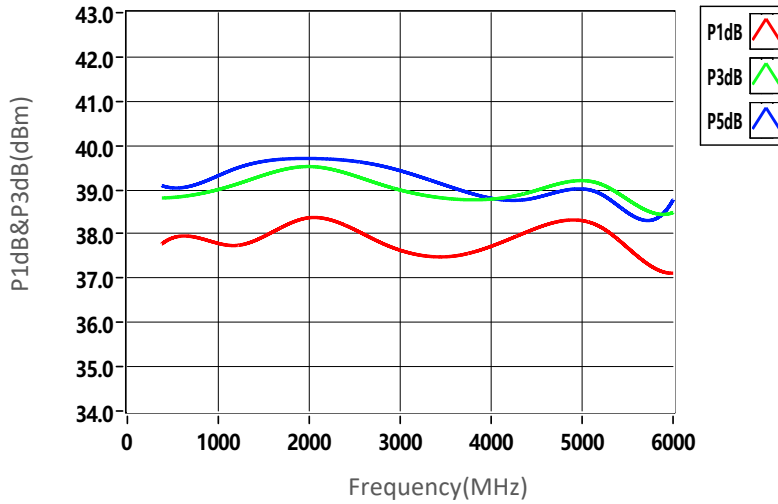


Gain vs Output Power

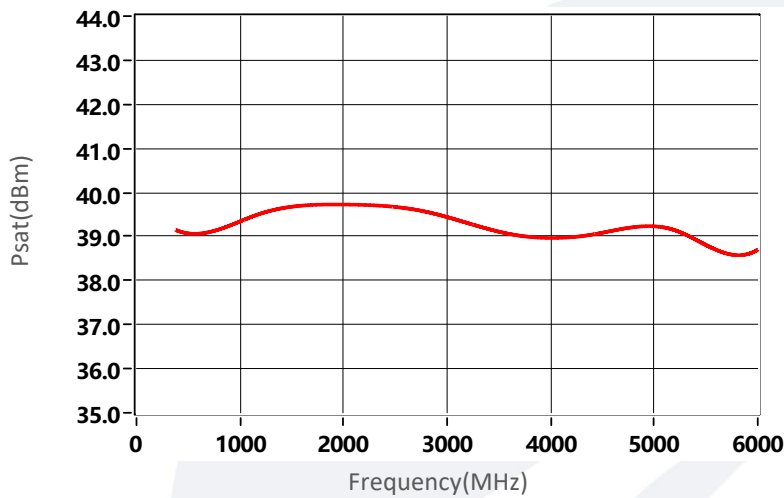


Typical Performance Data:

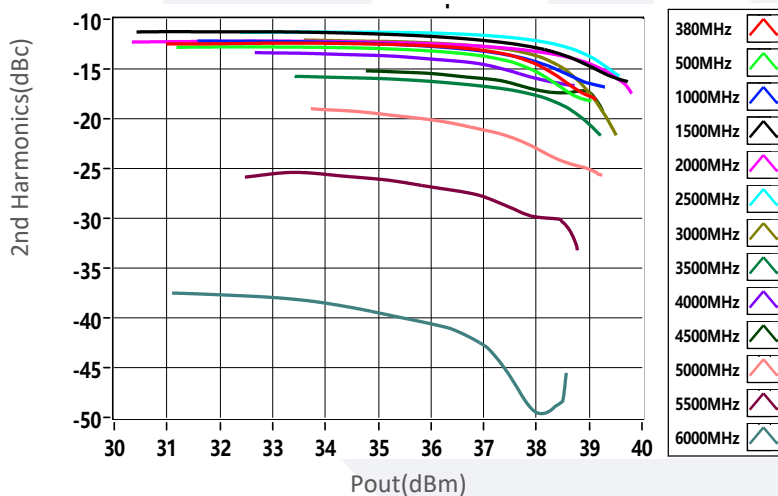
P1dB&P3dB vs Frequency



Psat vs Frequency



2nd Harmonics vs Output Power



Typical Performance Data:

