

Model:TLPA2G6G-30-33

Power Amplifier 2-6GHz,Gain:30dB,P1dB:33dBm

Feature:

- Ultra Wide Band:2-6GHz
- Gain:30dB Typ
- P1dB Output Power:33dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	2-6			GHz
Gain	30	33		dB
Gain Flatness		±2	±2.5	dB
Output P1dB	33	35		dBm
Output Psat		36		dBm
Spurious		-60		dBc
IP3		42		dBm
Input VSWR		1.6	2	:1
DC Voltage		+28		V DC
DC Supply Current		0.6	1	A
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	/	
Size	80*67*12	mm
Weight	/	g

Absolute Maximum Ratings:

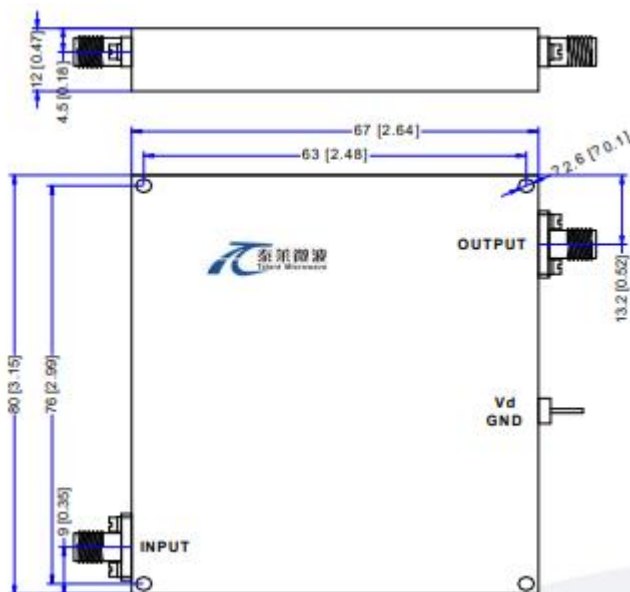
Parameter	Value
Supply Bias Voltage	+28V
RF Input Power	0dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



***Heat Sink Required During Operation



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

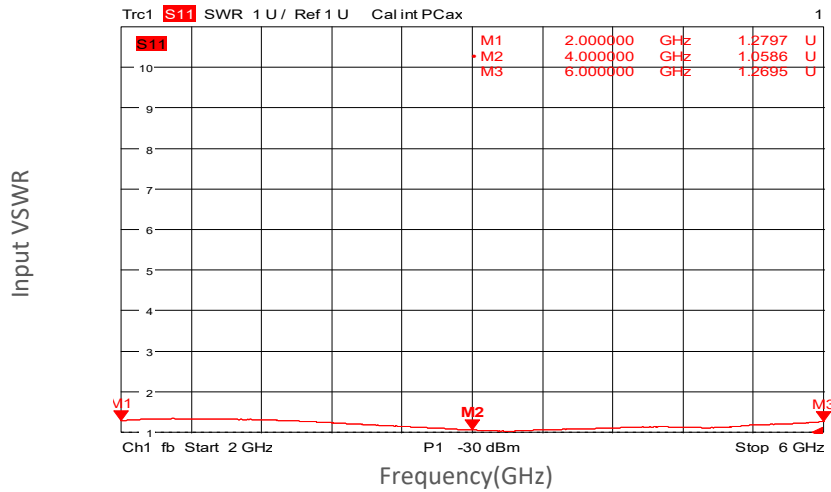
Parameter	Min	Typ	Max	单位Units
Operating Temperature	-20		+50	°C
Non-operating Temperature	-55		+125	°C
Relative humidity	100%RH at 35°C, 95%RH at 40°C			%
Altitude	50000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

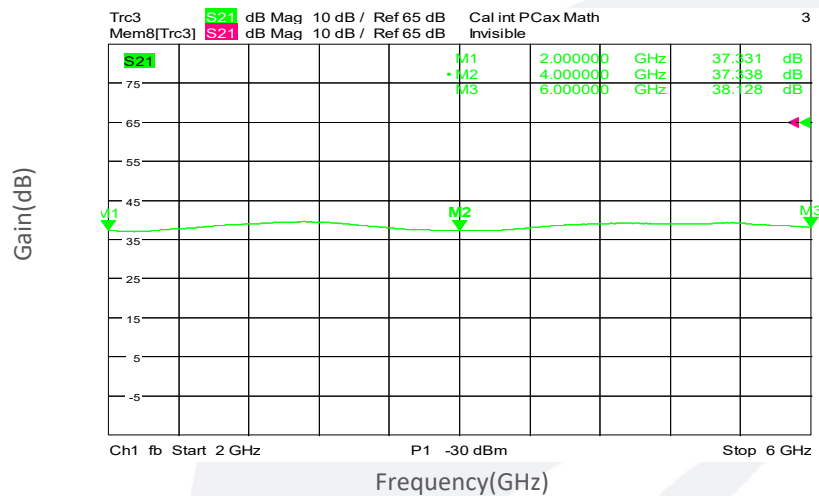
Part Number	Description	Revision
TLPA2G6G-30-33	Power amplifier 2-6GHz,Gain:33dB,Psat:36dBm,+28V DC,Without Heatsink.	Rev.1.1
TLPA2G6G-30-33-HS	Power amplifier 2-6GHz,Gain:33dB,Psat:36dBm,+28V DC,With Heatsink.	Rev.1.1

Typical Performance Data:

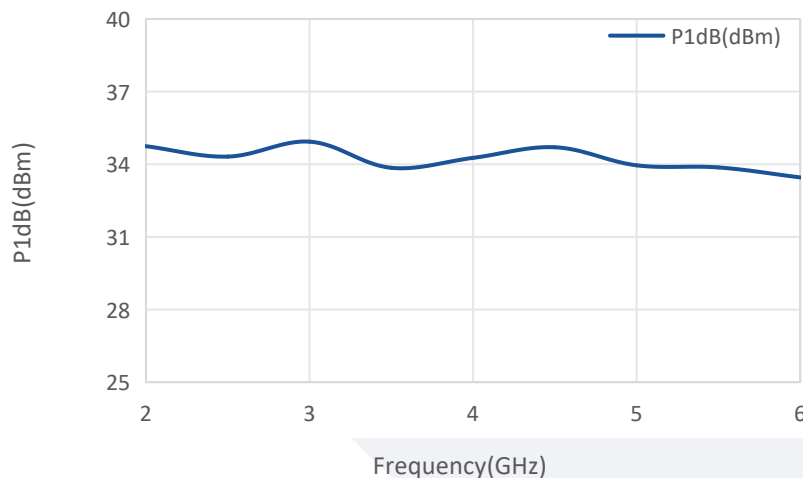
Input VSWR vs Frequency



Gain vs Frequency

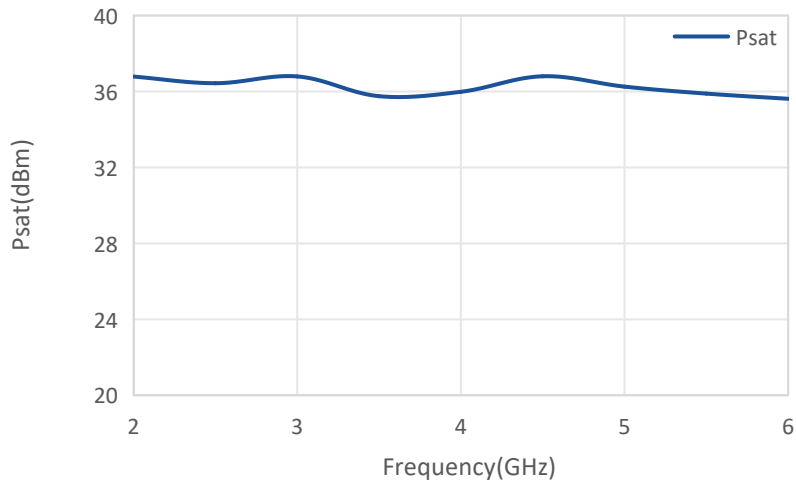


P1dB vs Frequency



Typical Performance Data:

Psat vs Frequency



Harmonics vs Output Power

