

Model:TLPA0.5G8G-35-33
Power Amplifier
0.5-8GHz, Gain:35 dB,PSat:33dBm
Feature:

- Ultra Wide Band: 0.5-8GHz
- Gain: 33 dB Min
- PSat Output Power: 33dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min.	Typ.	Max.	Units
Frequency range	0.5-8			GHz
Gain	33	35		dB
Gain Flatness		±3.0	±4.0	dB
PSat	32	33		dBm
Non-Harmonic Spurious			-60	dBc
Harmonics			-10	dBc
Input VSWR		1.5	2.0	:1
DC Voltage	26	28	30	V DC
DC Supply Current		0.5	1.2	A
Impedance	50			Ohms

Noise Figures and other parameters degrade below 500 MHz.

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female	
Bias	Solder Pin	
Case Material	Aluminum	
Finish	Gold Plated	
Size	90.2*70*15	mm
Weight	250	g

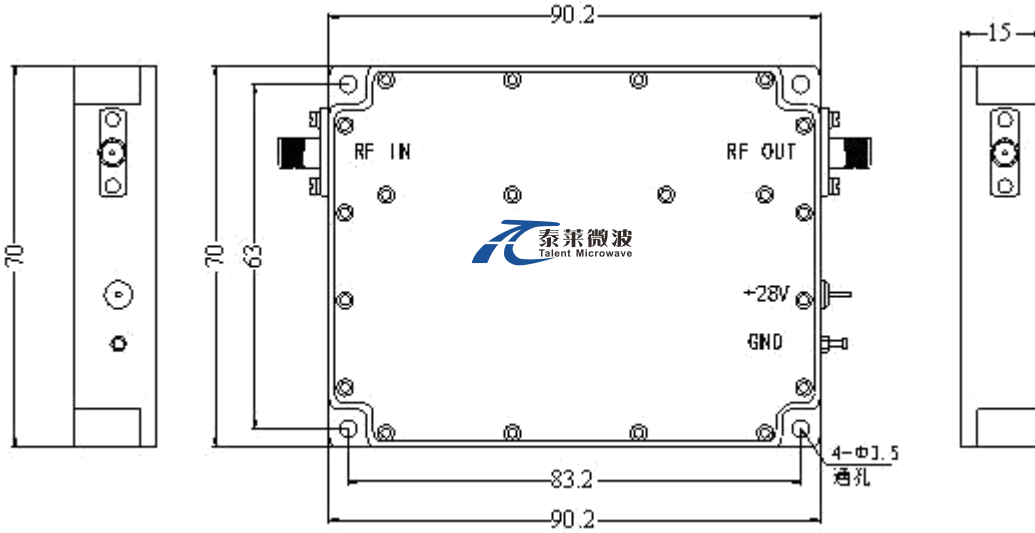
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	30
RF Input Power	+5 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.	单位Units
Operating Temperature	-45		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	30,000			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
TLPA0.5G8G-35-33	Power amplifier 0.5Hz-8GHz,Gain:35dB,Psat:33dBm,28V DC, Without Heatsink	Rev.1.1
TLPA0.5G8G-35-33-HS	Power amplifier 0.5Hz-8GHz,Gain:35dB,Psat:33dBm,28V DC, With Heatsink	Rev.1.1

Typical Performance Data:

Notes:

1. Amplifier may be destroyed if RF Input Power and/or DC Voltage exceeds maximum rating specified above.
2. Reverse biasing will destroy the amplifier.
3. All data taken @ +23°C unless otherwise specified.
4. Ground lug and bias pins are solderable.
5. Open and short-circuit loads and not recommended at the amplifier output. Ensure proper 50 Ohm load before turning the amplifier "ON".
6. Dimensions and specifications may be changed without prior notice.