

Power Amplifier

2-6.2GHz/45dB Gain/45dBm Psat

Model: TLPA2G6.2G-45-45

TLPA2G6.2G-45-45 is a power amplifier with a minimum small signal gain of 45 dB and a typical Psat of 45 dBm across the frequency range of 2 to 6.2 GHz. The DC power requirement for the amplifier is +28 VDC/5 A. The input and output port configuration offers coax adapter structure with SMA female.

Features:

- Frequency range: 2-6.2GHz
- Gain: 45dB Min
- Output Power Psat: 45dBm Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	2-6.2			GHz
Small Signal Gain	45			dB
Gain Flatness		±3		dB
Output Psat	44	45		dBm
Spurious			-60	dBc
Harmonic		-15		dBc
Input VSWR			2	:1
DC Voltage		28	30	V DC
DC Supply Current		4.5	5	A
Impedance	50			Ohms

Mechanical Specifications:

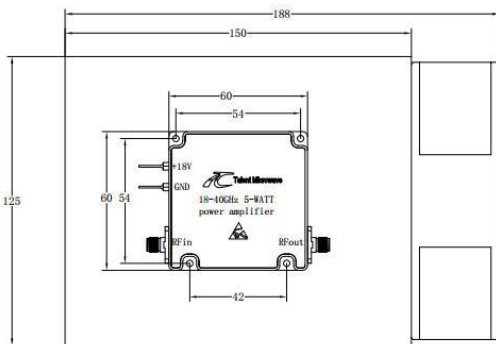
Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Supply Connector	Feedthru capacitors	
Size	60*60*11(Without heatsink) 188*125*146(With heatsink)	mm
Weight	≤100	g

Absolute Maximum Ratings:

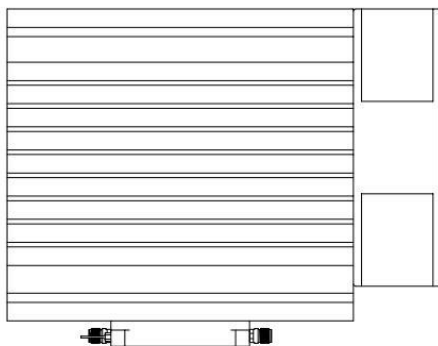
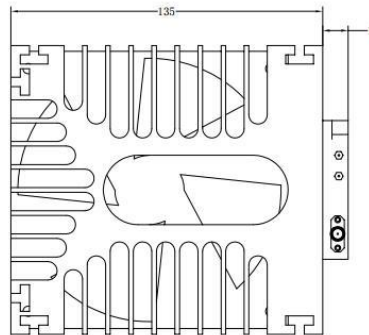
Parameter	Value
Supply Bias Voltage	+30V
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm



Regulatory Compliance:



*****Heat Sink Required During Operation**



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	-40		+50	°C
Non-operating Temperature*	-50		+60	°C
Relative humidity		95		%
Altitude	10,000			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			

*Note: For a wider temperature range, please consult the manufacturer.

Ordering Information:

Base Number	Description	Revision
TLPA2G6.2G-45-45	Power amplifier 2-6.2GHz, Gain:45dB,Psat:45dBm,+28V DC,Without Heatsink	Rev.1.1
TLPA2G6.2G-45-45-HS	Power amplifier 2-6.2GHz, Gain:45dB,Psat:45dBm,+28V DC,With Heatsink	Rev.1.1