

Power Amplifier

5.25-5.37GHz/45dB Gain/43dBm Psat

Model: TLPA5.25G5.37G-45-43

TLPA5.25G5.37G-45-43 is a power amplifier with a typical gain of 45 dB and a typical Psat of 43 dBm across the frequency range of 5.25 to 5.37 GHz. The DC power requirement for the amplifier is +28 VDC/4 A. The input and output port configuration offers coax adapter structure with SMA female.

Features:

- Frequency range: 5.25-5.37GHz
- Gain: 45dB Typ
- Output Power Psat: 43dBm 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	5.25		5.37	GHz
Gain	40	45		dB
Gain Flatness		±0.2	±0.25	dB
Outout P1dB	42.3	42.7		dBm
Output Psat		43		dBm
Supurious			-70	dBc
Harmonic			-50	dBc
Input VSWR		1.5	2.0	:1
DC Voltage		+28		V DC
DC Supply Current		4		A
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	94*170*20(Without Heatsink)	mm

Absolute Maximum Ratings:

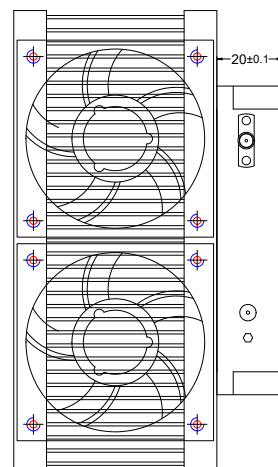
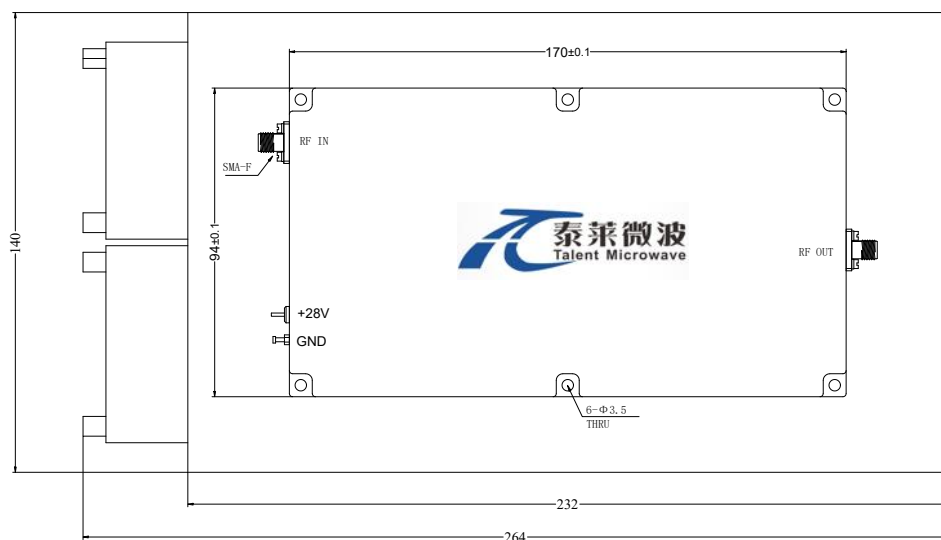
Parameter	Value
Supply Bias Voltage	TBD
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Simple 220V System
Available SAC option

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	-40		+60	°C
Non-operating Temperature*	-50		+70	°C
Relative humidity		95		%
Altitude	10,000			feet
Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth			
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
TLPA5.25G5.37G-45-43	Power amplifier, 5.25-5.37GHz, Gain:45dB,Psat:43dBm,+28V DC,Without Heatsink	Rev.1.1
TLPA5.25G5.37G-45-43-HS	Power amplifier, 5.25-5.37GHz, Gain:45dB,Psat:43dBm,+28V DC,With Heatsink	Rev.1.1