

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

Power Amplifier 5.25-5.37GHz, Gain:45dB, Psat:43dBm

Feature:

- Frequency : 5.25-5.37 GHz
- Gain: 45 dB Typ
- Psat Output Power: 43 dBm Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output
- Over Temperature Protection
- Reverse power Protection

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	5.25-5.37			GHz
Small Signal Gain	40	45		dB
Gain Flatness		±0.2	±0.25	dB
Output P1dB	42.3	42.7		
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	/	mm
Weight	/	g

Absolute Maximum Ratings:

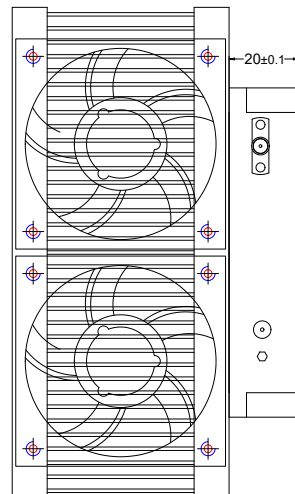
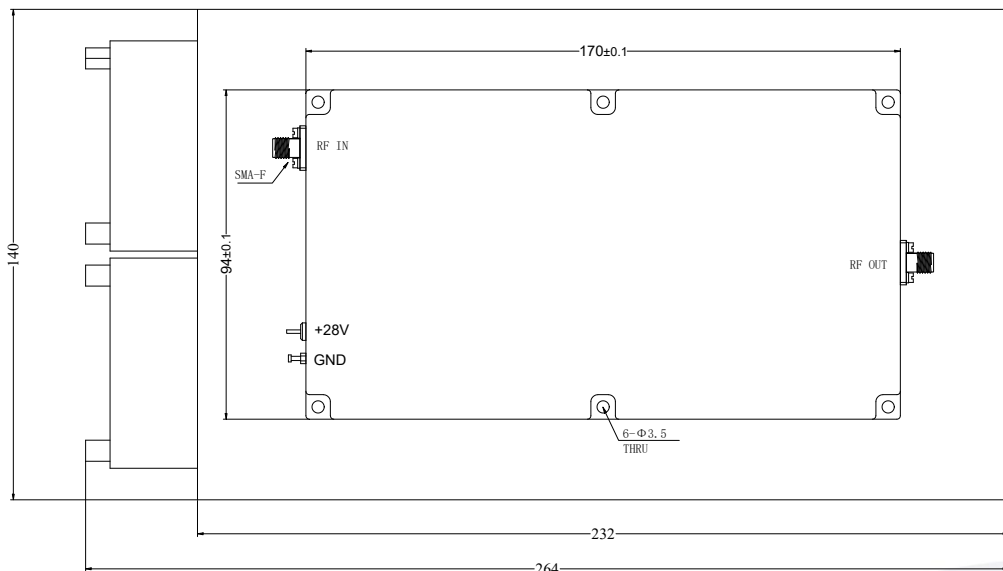
Parameter	Value
Supply Bias Voltage	+28 V
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



***Heat Sink Required During Operation

Environmental Conditions:



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Parameter	Min	Typ	Max	Units
Operating Temperature	-40		+75	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	30,000			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
TLPA5.25G5.37G-45-43	Power amplifier 5.25-5.37GHz,Gain:45dB,Psat:43dBm, +28V DC,Without Heatsink	Rev.1.0
TLPA5.25G5.37G-45-43-HS	Power amplifier 5.25-5.37GHz,Gain:45dB,Psat:43dBm, +28V DC,With Heatsink	Rev.1.0