

Model:TLPA0.5G6G-45-46**Power Amplifier****0.5-6GHz,Gain:45dB,Psat:46dBm****Feature:**

- Ultra Wide Band: 0.5-6GHz
- Gain:45 dB Min
- Psat Output Power: 46 dBm Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	0.5-6			GHz
Gain	45	47		dB
Gain Flatness		±4		dB
Output P1dB	43	44		dBm
Output Psat		46		dBm
Input VSWR		1.5	2.5	:1
DC Voltage	+28			V DC
DC Supply Current		5		A
Impedance	50			Ohms

Mechanical Specifications:

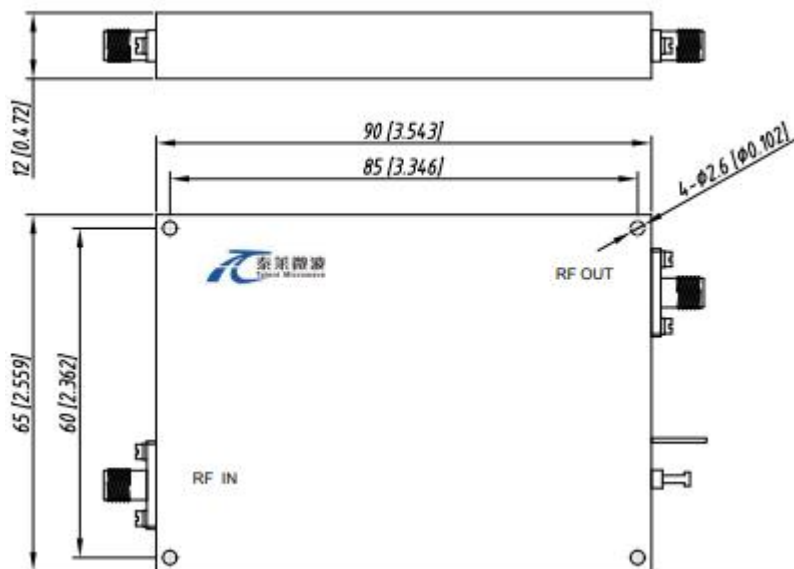
Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	90*65*12	mm
Weight	/	g

Absolute Maximum Ratings:

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

Outline Drawing:

Unit: mm



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



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-40		+75	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	50,000			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
TLPA0.5G6G-45-46	Power amplifier 0.5-6GHz,Gain:45dB,Psat:46dBm, +28V DC,Without Heatsink	Rev.1.1
TLPA0.5G6G-45-46-HS	Power amplifier 0.5-6GHz,Gain:45dB,Psat:46dBm, +28V DC,With Heatsink	Rev.1.1