

Model:TLPA1G6G-47-47

Power Amplifier 1-6GHz,Gain:47dB,Psat:47dBm

Feature:

- Ultra Wide Band: 1-6GHz
- Gain:47dB Typ
- Psat Output Power: 47dBm Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	1-6			GHz
Gain	45	47		dB
增益Gain Flatness		±4	±5	dB
Output P1dB	44.5	45.5		dBm
Output Psat		47		dBm
Harmonic@Pout=52dBm		-15	-13	dBc
Input VSWR		1.5	2.0	:1
DC Voltage		+28		V DC
DC Supply Current		5	6	A
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	220*180*25	mm
Weight	/	g

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	TBD
RF Input Power	+8 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit: mm



***Heat Sink Required During Operation



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

D-sub, 9-Pin, Female

Pin	Identification	Type	Function
1	+28V	Input	Power Supply Positive +28.0-30.0VDC
2	+28V	Input	Power Supply Positive +28.0-30.0VDC
3	+28V	Input	Power Supply Positive +28.0-30.0VDC
4	GND	Input	Power Supply Negative
5	GND	Input	Power Supply Negative
6	GND	Input	Power Supply Negative
7	NC		No internal connection
8	NC		No internal connection
9	NC		No internal connection

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	°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
TLPA1G6G-47-47	Power amplifier 1-6GHz,Gain:47dB,Psat:47dBm, +28V DC,Without Heatsink	Rev.1.1
TLPA1G6G-47-47-HS	Power amplifier 1-6GHz,Gain:47dB,Psat:47dBm, +28V DC,With Heatsink	Rev.1.1