泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
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Power Amplifier

1-6GHz /51dB Gain/51 dBm Psat Model: TLPA1G6G-57-51

TLPA1G6G-57-51 is a power amplifier with a typical small signal gain of 51 dB and Psat of 51 dBm across the frequency range of 1 to 6 GHz. The DC power requirement for the amplifier is +28~30 VDC/20 A. The input and output port configuration offers coax adapter structure with SMA female .

Features:

- Ultra Wide Band: 1-6 GHz
- Gain: 51dB Min
- Output Power Psat: 51dBm Min
- 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		1-6		GHz
Small Signal Gain	51	54		dB
Gain Flatness		±2	±4	dB
Output P1dB	49	50		dBm
Output Psat	51	52		dBm
Harmonic		13		dBc
Spurious		-60		dBc
Input VSWR		1.5	2.5	:1
Input Max Power(no damage)			5	dBm
DC Voltage	28		30	V DC
DC Supply Current		15	20	A
Impedance		50		Ohms

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Mechanical Specifications:

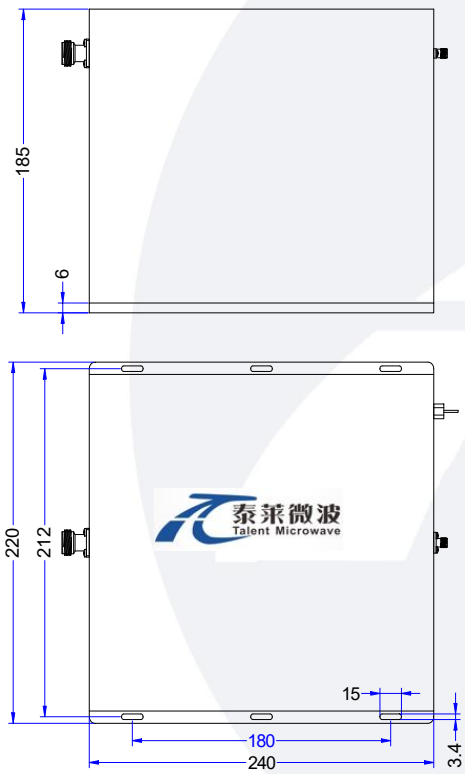
Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Material	Aluminium	
Package Sealing	With air cooling	
Size	240*220*185	mm
Weight	4	Kg

Absolute Maximum Ratings:

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

Outline Drawing:

Unit:mm



***Heat Sink Required During Operation

OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

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Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	-25		+85	℃
Non-operating Temperature*	-55		+125	℃
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	Desciption	Revision
TLPA1G6G-57-51	Power amplifier 1-6GHz,Gain:51dB,Psat:51dBm, +28V DC,Without Heatsink	Rev.1.1
TLPA1G6G-57-51-HS	Power amplifier 1-6GHz,Gain:51dB,Psat:51dBm, +28V DC,With Heatsink	Rev.1.1