Suzhou Talent Microwave,Inc
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Power Amplifier

2-22.5GHz/36dB Gain/36dBm Psat

Model: TLPA2G22.5G-36-36

TLPA2G22.5G-36-36 is a power amplifier with a minimum power gain of 36 dB and a minimum Psat of 36 dBm across the frequency range of 2 to 22.5 GHz. The DC power requirement for the amplifier is +18 VDC/4 A. The input and output port configuration offers coax adapter structure with SMA female.

Features:

- Frequency range: 2-22.5GHz
- Gain: 36dB Min
- Output Power Psat: 36dBm 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	2		22.5	GHz
Power Gain@Pout=36dBm	36			dB
Gain Flatness		±4		dB
Output Psat	36			dBm
Spurious@Pout=36dBm			-60	dBc
Harmonic@Pout=36dBm			-10	dBc
Input VSWR			2	:1
DC Voltage		18		V DC
DC Supply Current			4	A
Impedance	50			Ohms

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Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC SupplY Connector	J30J-9ZKP	
Size	150*90*20	mm

Absolute Maximum Ratings:

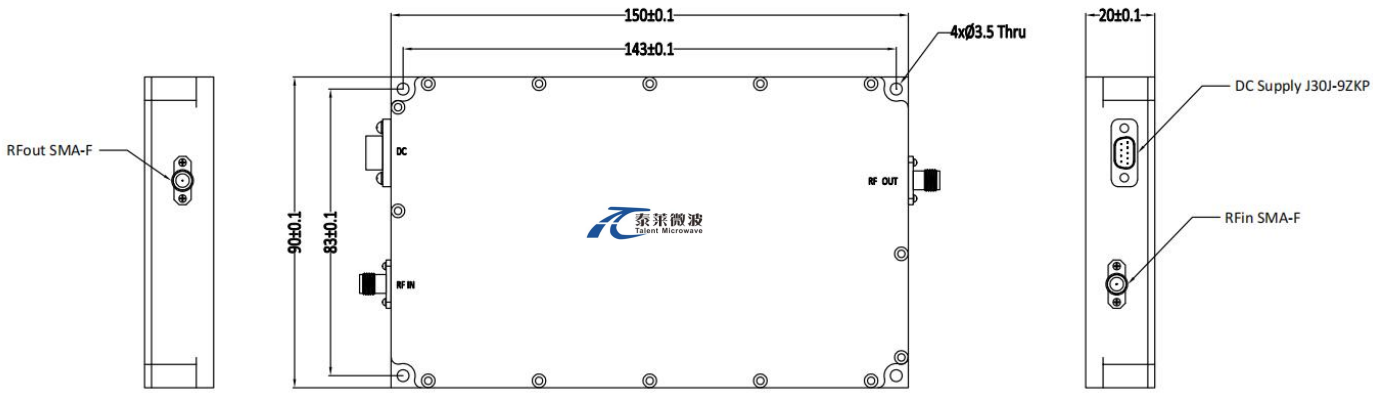
Parameter	Value
Supply Bias Voltage	TBD
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Simple 220V System
Available SAC option

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



***Heat Sink Required During Operation



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

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Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	-40		+60	℃
Non-operating Temperature*	-50		+70	℃
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	Description	Revision
TLPA2G22.5G-36-36	Power amplifier 2-22.5GHz, Gain:36dB,Psat:36dBm,+18V DC,Without Heatsink	Rev.1.0
TLPA2G22.5G-36-36-HS	Power amplifier 2-22.5GHz, Gain:36dB,Psat:36dBm,+18V DC,With Heatsink	Rev.1.0