Suzhou Talent Microwave,Inc
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Power Amplifier

2-22GHz/43dB Gain/43dBm Psat

Model: TLPA2G22G-43-43

TLPA2G22G-43-43 is a power amplifier with a minimum power gain of 43 dB and a minimum Psat of 43 dBm across the frequency range of 2 to 22 GHz. The DC power requirement for the amplifier is +18VDC/14A. The input and output port configuration offers coax adapter structure with 2.92mm female.

Features:

- Frequency range: 2-22GHz
- Gain: 43dB Min
- Output Power Psat: 43dBm Min
- Protection:Over voltage protection
- 50 Ohm Matched Input / Output

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range		2-22		GHz
Power Gain	43			dB
Gain Flatness		±4		dB
Output P1dB	35			dBm
Output Psat	43			dBm
Spurious@Pout=43dBm			-50	dBc
Harmonic@Pout=43dBm			-10	dBc
Input VSWR			2	:1
DC Voltage		18	19	V DC
DC Supply Current		14	15	A
Impedance		50		Ohms

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Mechanical Specifications:

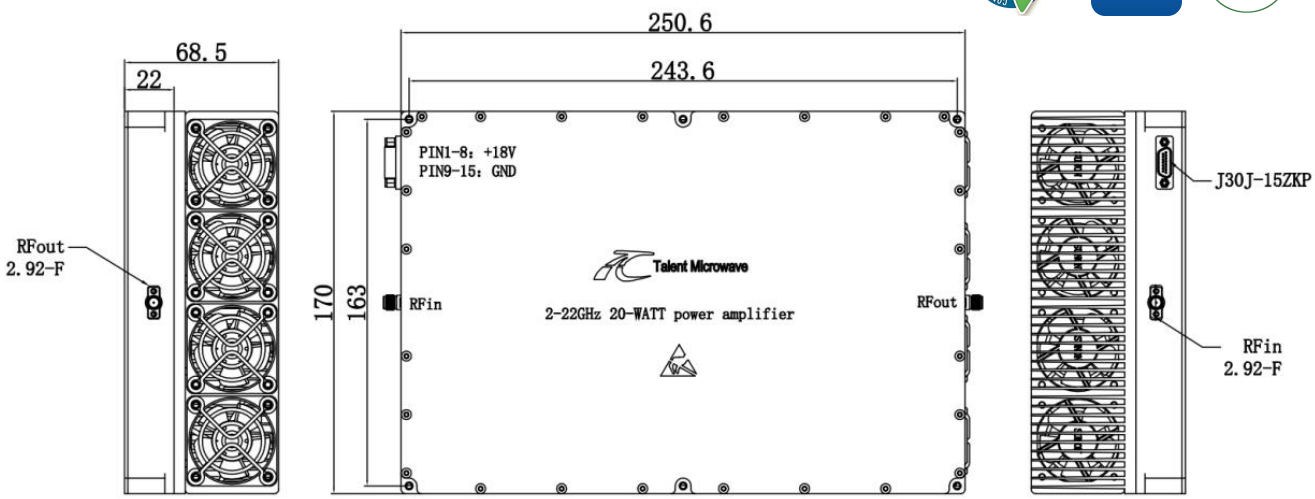
Parameter	Value	Units
Input /Output Connector	2.92mm Female/2.92mm Female	
DC Supply Connector	J30J-15ZKP	Pin1~8:+18V Pin9~15:GND
Size	250.6*170*22(Without heatsink) 250.6*170*68.5(With heatsink)	mm
Weight	≤3.5	Kg

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+19 V
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm



Regulatory Compliance:

***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		+50	℃
Non-operating Temperature*	-50		+60	℃
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
TLPA2G22G-43-43	Power amplifier 2-22GHz, Gain:43dB,Psat:43dBm,+18V DC,With Heatsink	Rev.1.1