

Power Amplifier

2-22GHz/35dB Gain/35dBm Psat

Model: TLPA2G22G-35-35

TLPA2G22G-35-35 is a power amplifier with a minimum power gain of 35 dB and a minimum Psat of 35 dBm across the frequency range of 2 to 22 GHz. The DC power requirement for the amplifier is +18VDC/4A. The input and output port configuration offers coax adapter structure with 2.92mm female.

Features:

- Frequency range: 2-22GHz
- Gain: 35dB Min
- Output Power Psat: 35dBm 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	35			dB
Gain Flatness		±4		dB
Output P1dB		28		dBm
Output Psat	35			dBm
Spurious@Pout=35dBm			-50	dBc
Harmonic@Pout=35dBm			-10	dBc
Input VSWR			2	:1
DC Voltage		+18	+19	V DC
DC Supply Current		4	5	A
Impedance		50		Ohms

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	150*90*20(Without heatsink) 150*90*66.5(With heatsink)	mm
Weight	≤2.5	Kg

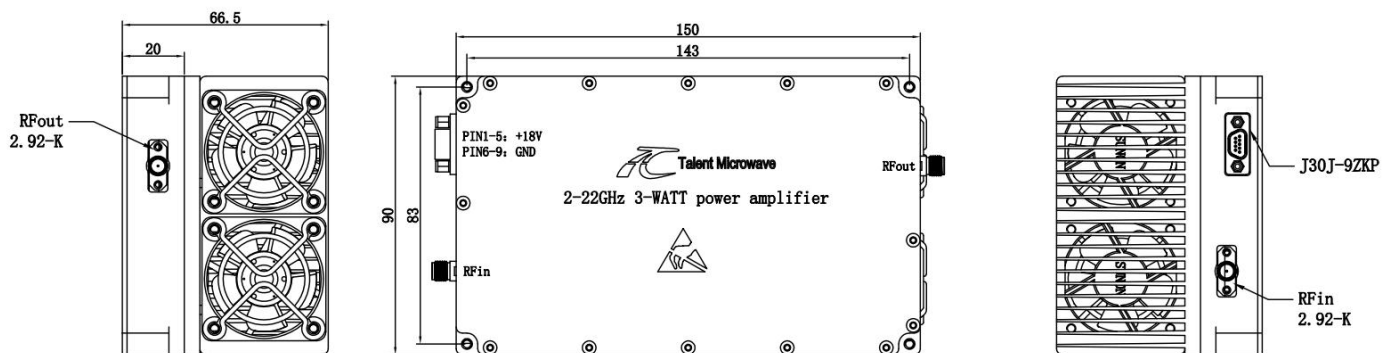
Absolute Maximum Ratings:

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



Outline Drawing:

Unit:mm



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



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

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	-40		+60	°C
Non-operating Temperature*	-50		+70	°C
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-35-35-HS	Power amplifier 2-22GHz, Gain:35dB,Psat:35dBm,+18V DC,With Heatsink	Rev.1.1