

Model:TLPA30.9G31.4G-43-43

Power Amplifier 30.9-31.4GHz,Gain:43dB,Psat:43dBm

Feature:

- Ultra Wide Band: 30.9-31.4GHz
- Gain: 43 dB Min
- Psat Output Power: 43 dBm Min
- Protection:Over TEM,over voltage, over current ,over VSWR protection.
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	30.9-31.4			GHz
Gain	43			dB
Gain Flatness			±2	dB
Output Psat	43			dBm
Supurious@Pout=43dBm			-50	dBc
Input VSWR			2.0	:1
DC Voltage	+22			V DC
DC Supply Current		7	8.5	A
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	2.92 Female/2.92 Female	
DC Bias	J30J-9ZKP	
Size	150*90*20	mm
Weight	400	g

Absolute Maximum Ratings:

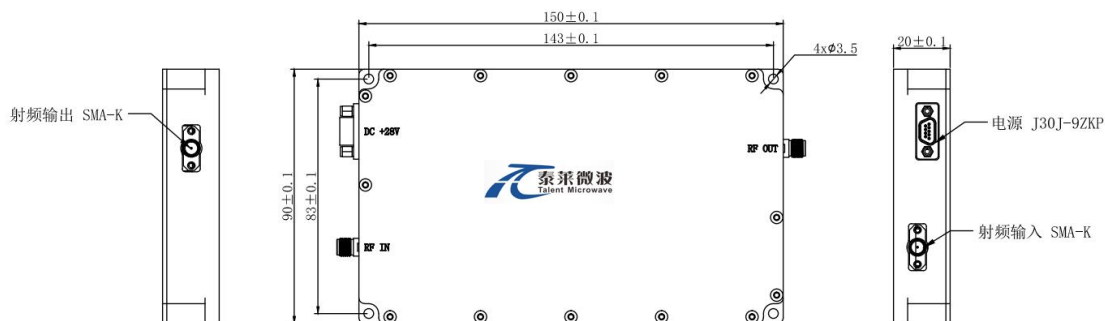
Parameter	Value
Supply Bias Voltage	TBD
RF Input Power	+10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



J30J-9ZKP	
Pin	Function
Pin1-3	+22V
Pin4	Over Temperature Indication (High Indicates Abnormal, Low Indicates Normal)
Pin5	Over VSWR indication (high indicates abnormal, low indicates normal)
Pin6-8	GND
Pin9	TTL(Power on/off control, active high, invalid low and floating)

***Heat Sink Required During Operation



Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-40		+60	°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
TLPA30.9G31.4G-43-43	Power amplifier 30.9-31.4GHz,Gain:43dB,Psat:43dBm, +22V DC,Without Heatsink	Rev.1.1
TLPA30.9G31.4G-43-43-HS	Power amplifier 30.9-31.4GHz,Gain:43dB,Psat:43dBm, +22V DC,With Heatsink	Rev.1.1