泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

Power Amplifier

6-12GHz/43dB Gain/43dBm Psat

Model: TLPA6G12G-43-43-HS

TLPA6G12G-43-43-HS is a power amplifier with a minimum small signal gain of 43 dB and a minimum Psat of 43 dBm across the frequency range of 6 to 12 GHz. The DC power requirement for the amplifier is +28 VDC/120 W. The input and output port configuration offers coax adapter structure with SMA female.

Features:

- Frequency range: 6-12GHz
- Gain: 43dB Min
- Output Power Psat: 43dBm 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	6		12	GHz
Small Signal Gain	43			dB
Gain Flatness@Full band		±4		dB
Output Psat	43			dBm
Spurious@Pout=43dBm			-60	dBc
Harmonics@Pout=43dBm			-10	dBc
Input VSWR			2.2	:1
DC Voltage		+28		V DC
Power Consumption			120	W
Impedance	50			Ohms

Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

Mechanical Specifications:

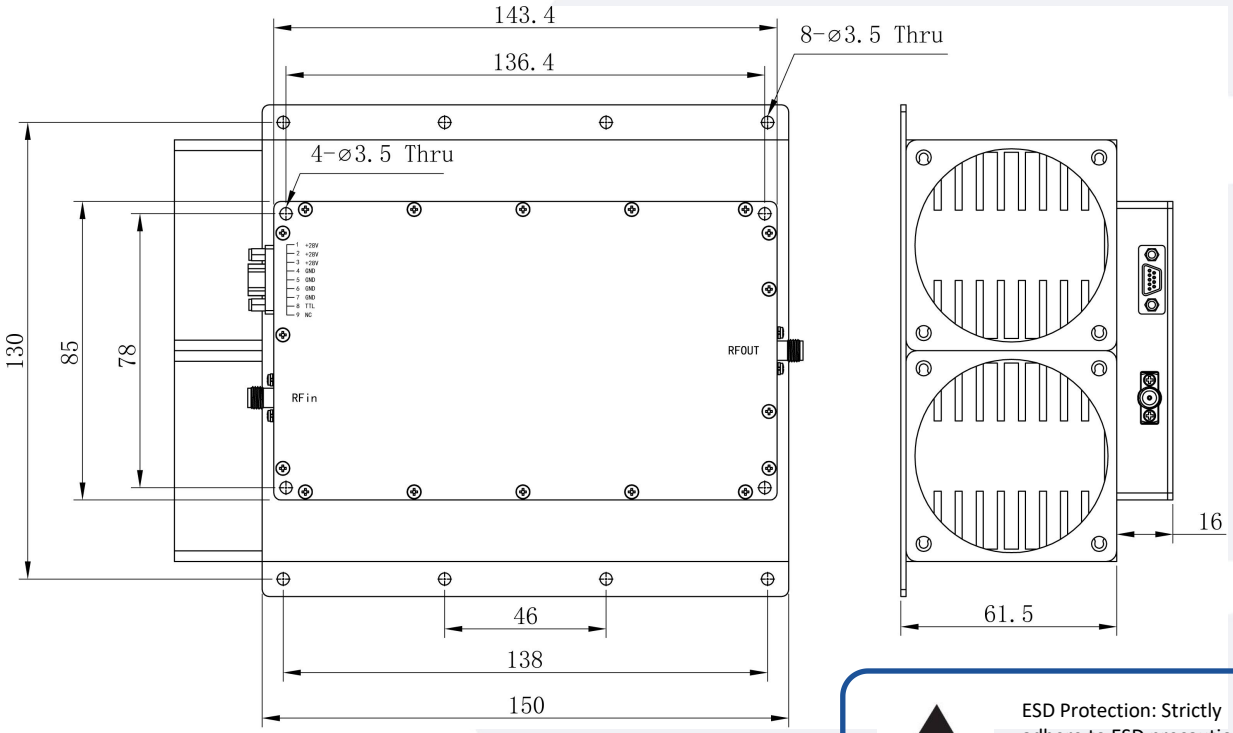
Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Power Supply Connector	J30J-9ZKP	Pin1~3: +28V Pin4~7: GND Pin8: TLL Pin9: NC
Size	143.4*85*16(Without heatsink)	mm

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+30 V
RF Input Power	+15 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



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

Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	-40		+70	℃
Non-operating Temperature*	-50		+80	℃
Relative humidity		95		%
Altitude	10,000			feet
Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth			
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
TLPA6G12G-43-43-HS	Power amplifier 6-12GHz, Gain:43dB,Psat:43dBm,+28V DC,With Heatsink	Rev.1.0