

Power Amplifier

26.5-40GHz/43dB Gain/43dBm Psat

Model: TLPA26.5G40G-43-43

TLPA26.5G40G-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 26.5 to 40 GHz. The DC power requirement for the amplifier is +22 VDC/15 A. The input port configuration is a female 2.92mm connector and the output is a WR28 waveguide.

Features:

- Frequency range: 26.5-40GHz
- 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	26.5-40			GHz
Power Gain	43			dB
Gain Flatness		±4.5		dB
Output Psat	43	44		dBm
Spurious			-50	dBc
Input VSWR		2	2.5	:1
DC Voltage		22	24	V DC
DC Supply Current			15	A
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	2.92mm Female/WR28	
DC Power Interface	SUB-2W2	Pin1:+22V Pin2:GND
Control Connector	J30J-9ZKP	
Size	230*194*85	mm
Weight	5	Kg

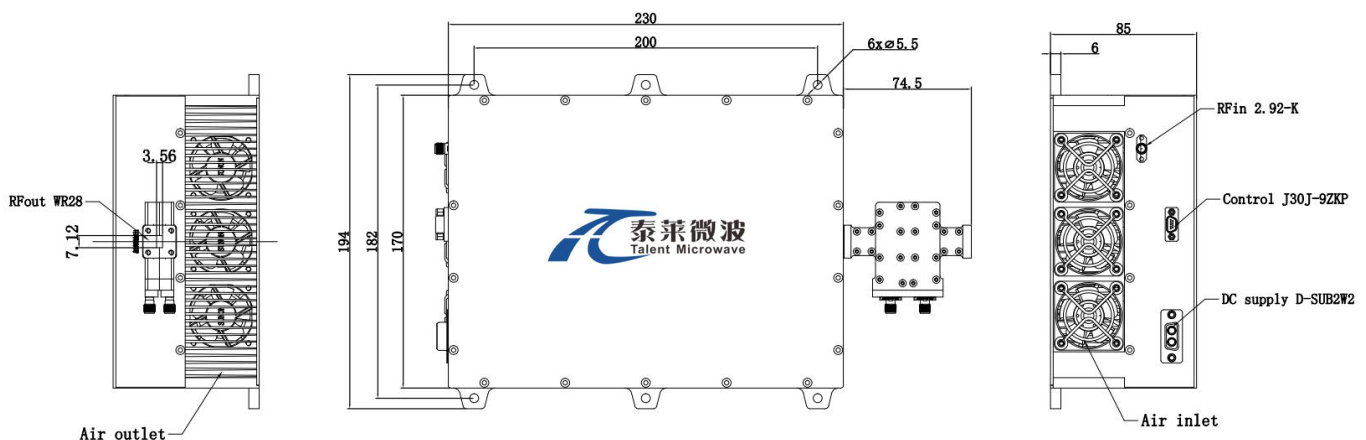
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+24 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.

Control Connector Pin Define:

J30J-9ZKP Define	
Pin	Function
Pin1	TTL(high for open,low for close)
Pin2	Current Monitor
Pin3	Temperature Monitor
Pin4	0.5dB Attenuation
Pin5	1dB Attenuation
Pin6	2dB Attenuation
Pin7	4dB Attenuation
Pin8	8dB Attenuation
Pin9	16dB Attenuation

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	-40		+50	°C
Non-operating Temperature*	-50		+60	°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
TLPA26.5G40G-43-43	Power amplifier 26.5-40GHz, Gain:43dB,Psat:43dBm,+22V DC,Without Heatsink	Rev.1.1
TLPA26.5G40G-43-43-HS	Power amplifier 26.5-40GHz, Gain:43dB,Psat:43dBm,+22V DC,With Heatsink	Rev.1.1