

Power Amplifier

26.5-40GHz /32dB Gain/31 dBm Psat

Model: TLPA26.5G40G-32-31

TLPA26.5G40G-32-31 is a power amplifier with a typical gain of 32 dB and a nominal Psat of 31 dBm across the frequency range of 26.5 to 40 GHz. The DC power requirement for the amplifier is +12 VDC/1.3 A. The input and output port configuration offers coax adapter structure with 2.92mm female.

Features:

- Ultra Wide Band: 26.5-40GHz
- Gain: 32dB Typ
- Output Power Psat: 31dBm Typ
- 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
Gain	30	32		dB
Gain Flatness		±3		dB
Output P1dB		28		dBm
Output Psat	30	31		dBm
Input VSWR		2		:1
Output VSWR		2		:1
DC Voltage		12		V DC
DC Supply Current		1.3		A
Impedance	50			Ohms

Mechanical Specifications:

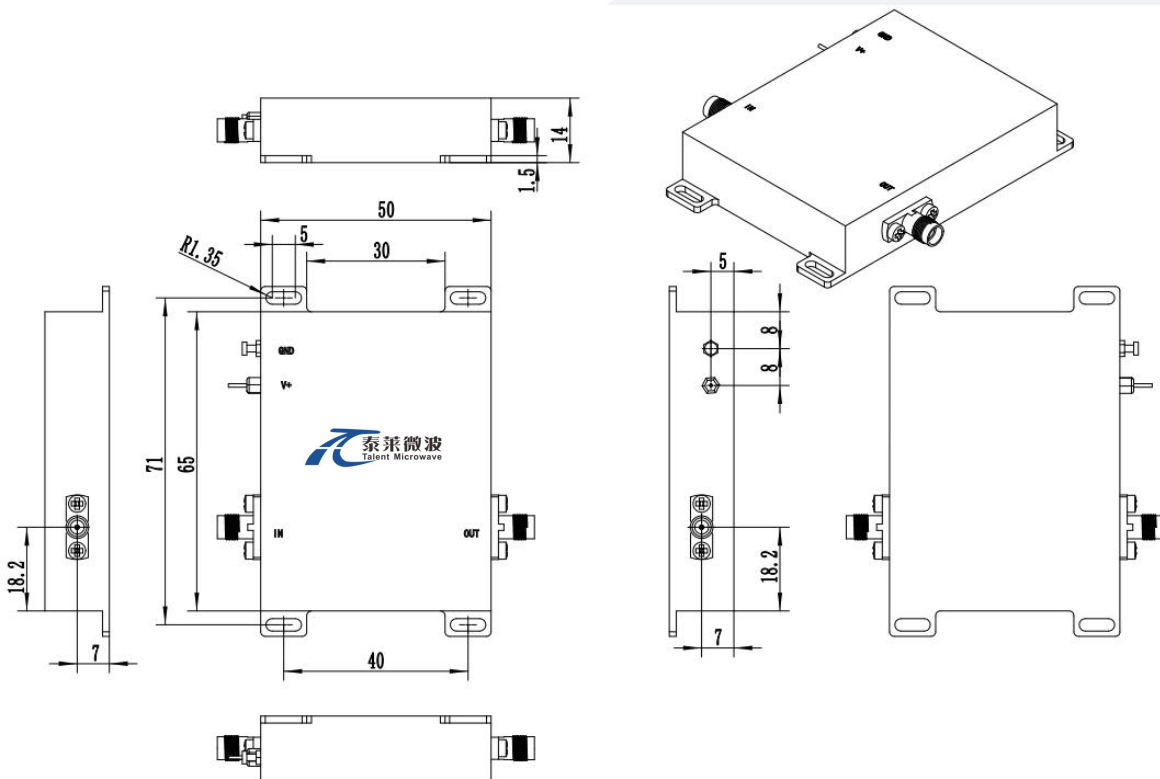
Parameter	Value	Units
Input /Output Connector	2.92mm Female/2.92mm Female	
DC Bias	Solder Pin	
Size	65*50*14(Without Heatsink) 100*50*64(With Heatsink)	mm

Absolute Maximum Ratings:

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

Outline Drawing:

Unit:mm



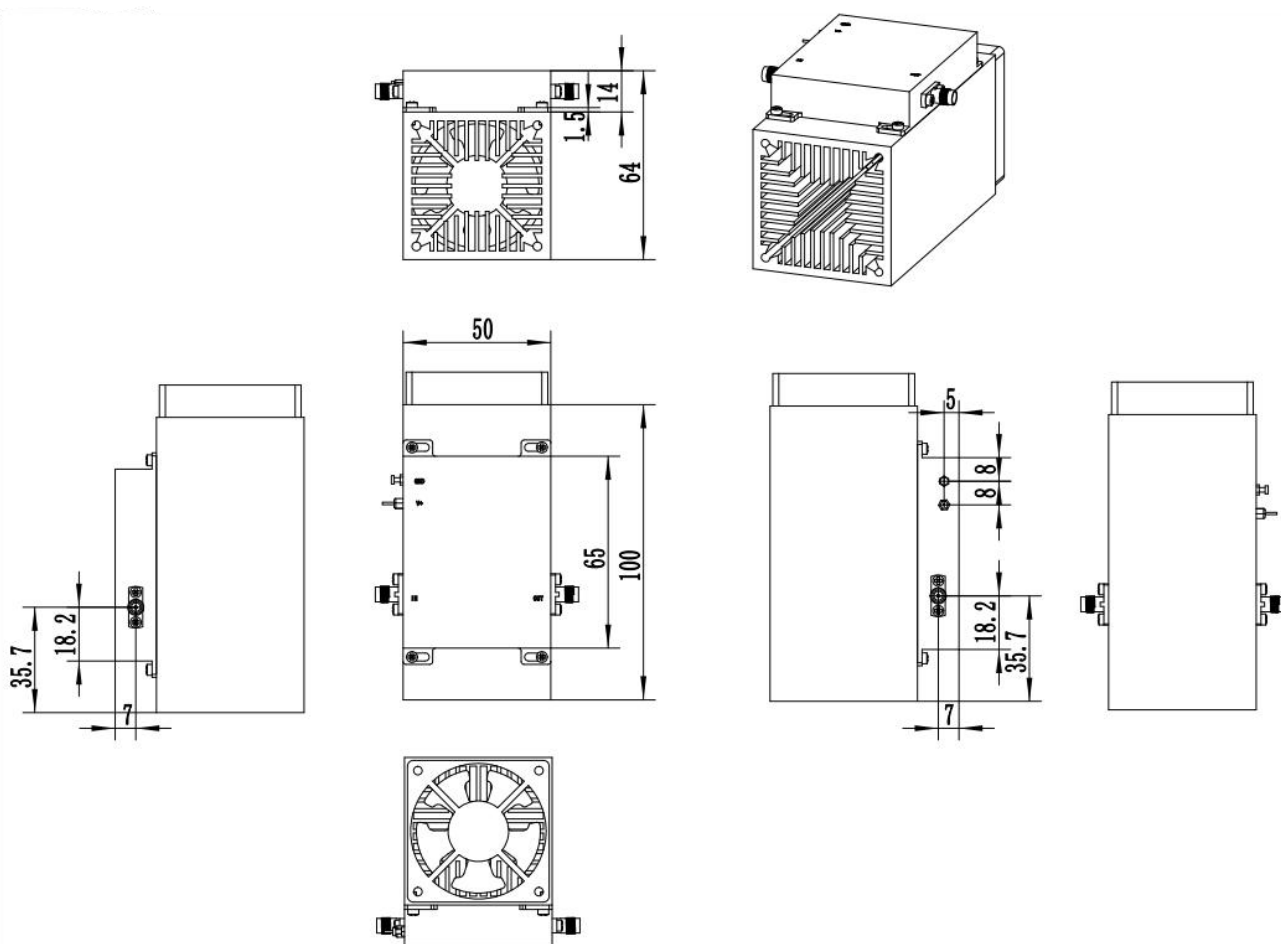
*****Heat Sink Required During Operation**



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Outline Drawing:

Unit:mm



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
TLPA26.5G40G-32-31	Power amplifier 26.5-40GHz, Gain:32dB, Psat:31dBm, +12V DC, Without Heatsink	Rev.1.1
TLPA26.5G40G-32-31-HS	Power amplifier 26.5-40GHz, Gain:32dB, Psat:31dBm, +12V DC, With Heatsink	Rev.1.1