

Power Amplifier

26.5-40GHz/30dB Gain/30dBm Psat

Model: TLPA26.5G40G-30-30-2

TLPA26.5G40G-30-30-2 is a power amplifier with a minimum gain of 30 dB and a minimum Psat of 30 dBm across the frequency range of 26.5 to 40 GHz. The DC power requirement for the amplifier is +12 VDC/1.5 A. The input and output port configuration offers coax adapter structure with 2.92mm female.

Features:

- Frequency range: 26.5-40GHz
- Gain: 30dB Min
- Output Power Psat: 30dBm 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
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		1.5		A
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	2.92mm Female/2.92mm Female	
DC Supply Connector	Solder Pin	
Size	30*50*17.5	mm

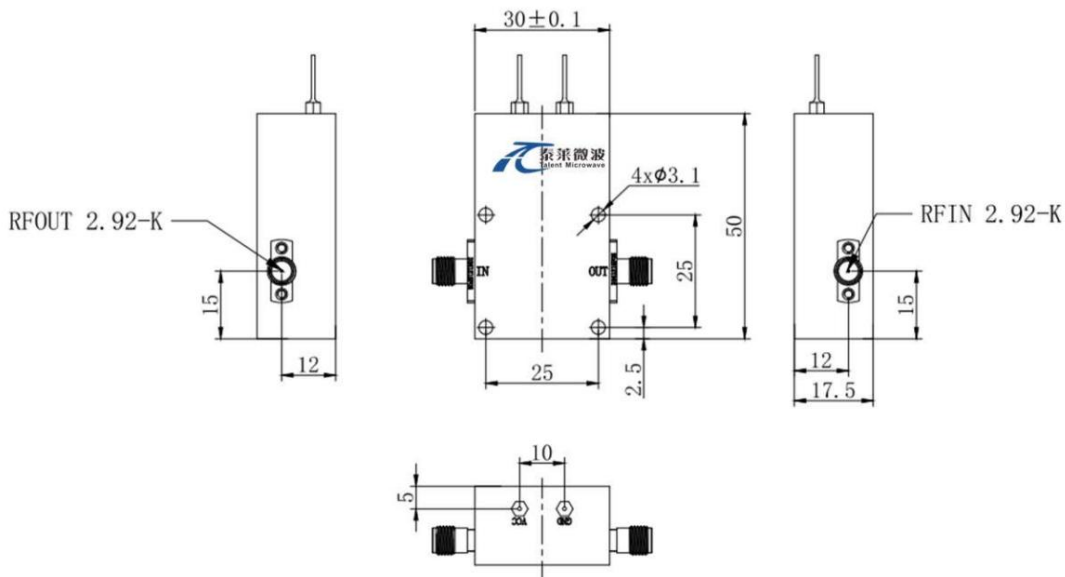
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+12 V
RF Input Power	+10 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
TLPA26.5G40G-30-30-2	Power amplifier 26.5-40GHz, Gain:30dB,Psat:30dBm,+12V DC,Without Heatsink	Rev.1.1
TLPA26.5G40G-30-30-2-HS	Power amplifier 26.5-40GHz, Gain:30dB,Psat:30dBm,+12V DC,With Heatsink	Rev.1.1