



Power Amplifier

Model: PA-26G5-40G-2.5

26.5-40GHz 2.5W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 26.5-40GHz
- High output power at saturation, 2.5W Typ.
- High gain, 30 dB Min.
- 50 Ohm Matched Input / Output.

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Product Overview:

The PA-26G5-40G-2.5 is a power amplifier with a minimum small signal gain of 30 dB and a nominal P_{sat} of 2.5W across the frequency range of 26.5 to 40GHz. The DC power requirement for the amplifier is +12 VDC/4 A. The input and output port configuration offers coax adapter structure with 2.92mm female.



Electrical Specifications at 25°C:

| Parameter | Min | Typ | Max | Units |
|----------------------------|------|------|-----|-------|
| Frequency range | 26.5 | | 40 | GHz |
| Small Signal Gain | 30 | 32 | | dB |
| Small Signal Gain Flatness | | ±2.5 | | dB |
| Output P1dB | | 33 | | dBm |
| Output Psat | | 34 | | dBm |
| Input VSWR | | 2 | | :1 |
| Output VSWR | | 2 | | :1 |
| DC Voltage | | +12 | | V DC |
| DC Supply Current | | 4 | | A |
| Impedance | | 50 | | Ohms |

Mechanical Specifications:

| Parameter | Value | Notes |
|---------------------------------|-----------------------------------------------------|-------|
| Operating Temperature* | -40°C to +60°C | |
| Non-operating Temperature* | -50°C to +70°C | |
| Relative humidity | 95% | |
| RF Input/Output Connector | 2.92mm Female/2.92mm Female | |
| DC Bias | Solder Pin | |
| Altitude | 50,000 | 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 | |
| Dimensions W x H x D | 55*56*12 | mm |

*Note: For a wider temperature range, please consult the manufacturer.

Absolute Maximum Ratings:

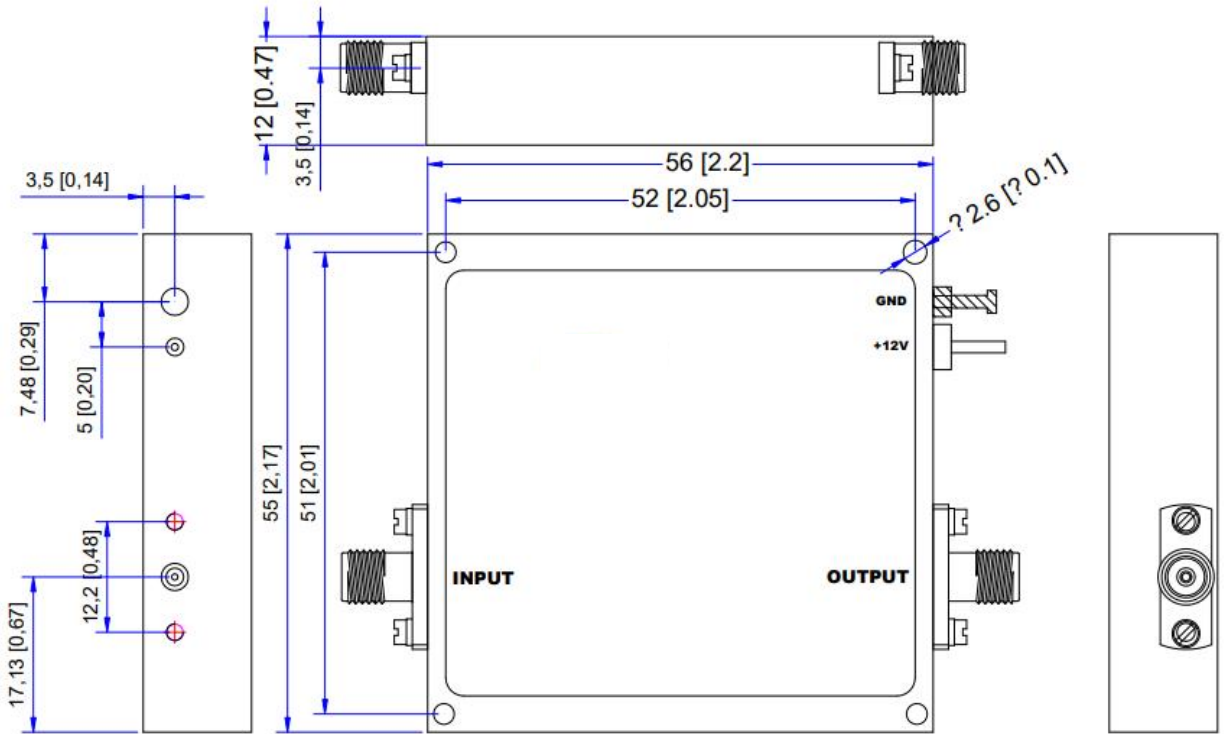
| Parameter | Value |
|-----------------------|----------------------|
| Supply Bias Voltage | +12V |
| RF Input Power | +10 dBm |
| ESD sensitivity (HBm) | Class 0, passed 150V |



Outline Drawing:

Unit:mm

PA-26G5-40G-2.5



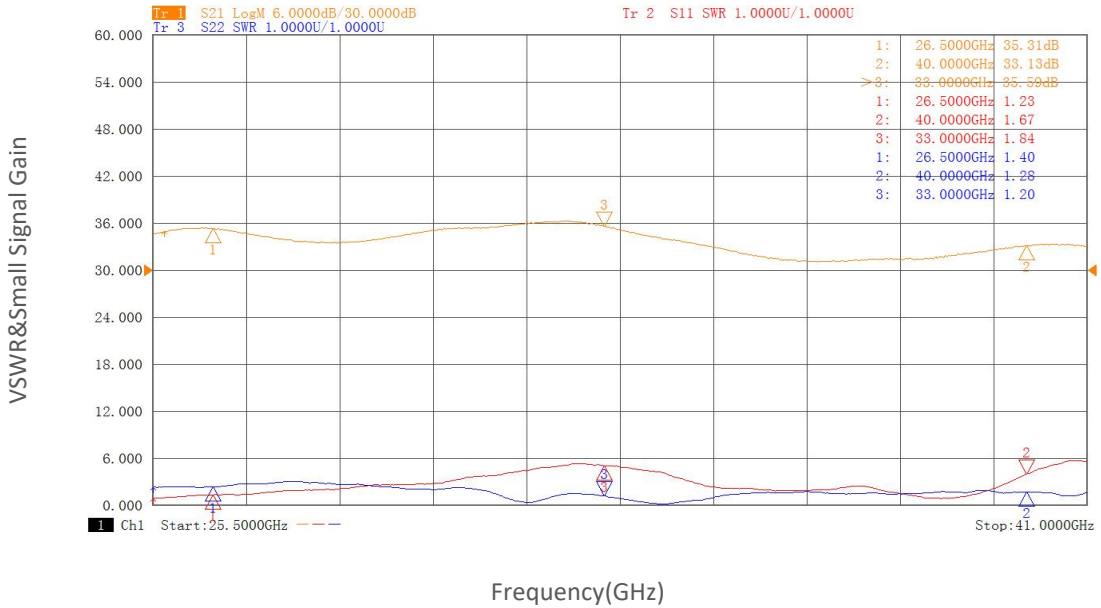
Ordering Information:

| Base Number | Description | Optional |
|--------------------|------------------------------------------------------------|------------------|
| PA-26G5-40G-2.5 | Power Amplifier,26.5-40GHz, Gain:30dB,Psat:2.5W,+12V DC | Without Heatsink |
| PA-26G5-40G-2.5-HS | Power Amplifier,26.5-40GHz, Gain:30dB,Psat:2.5W,+12V DC | With Heatsink |



Typical Performance Data:

VSWR&Small Signal Gain vs Frequency



Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.