Power Amplifier

Model: PA-60G-110G-6mW

60-110GHz 6mW CW

Ultrabroad frequency range, high performanceand exceptional RF characteristics

Features:

- Frequency range: 60-110GHz
- High output power at saturation, 6mW Typ.
- High gain, 30 dB Typ.
- 50 Ohm Matched Input / Output.

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Product Overview：

The PA-60G-110G-6mW is a power amplifier with a typical power gain of 30 dB and a nominal Psat of 6 mW across the frequency range of 60 to 110 GHz. The DC power requirement for the amplifier is +12 VDC/90 mA. The input and output port configuration offers coax adapter structure with 1.0mm female.

Electrical Specifications at 25℃:

Parameter	Min	Typ	Max	Units
Frequency range	60		110	GHz
Power Gain		30		dB
Output Psat		8		dBm
Input VSWR		2		:1
Output VSWR		2		:1
DC Voltage		+12		V DC
Power Consumption		90		A
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Notes
Operating Temerature*	-40℃ to +60℃	
Non-operating Temperature*	-50℃ to +70℃	
Relative humidity	95	%
RF Input/Output Connector	1.0mm Female/1.0mm Female	
DC Bias	Solder Pin	
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	
Dimensions W x H x D	41.8*51.8*12	mm

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

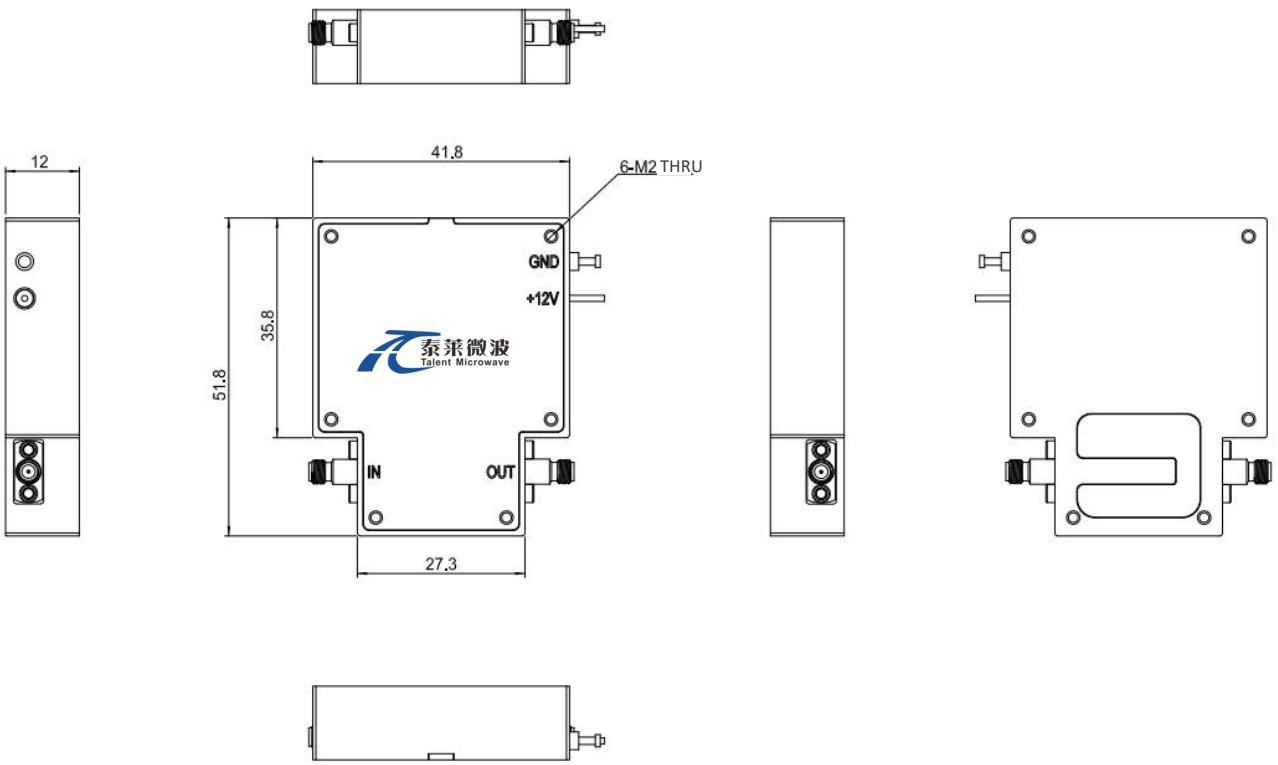
Absolute Maximum Ratings:

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

Outline Drawing:

Unit:mm

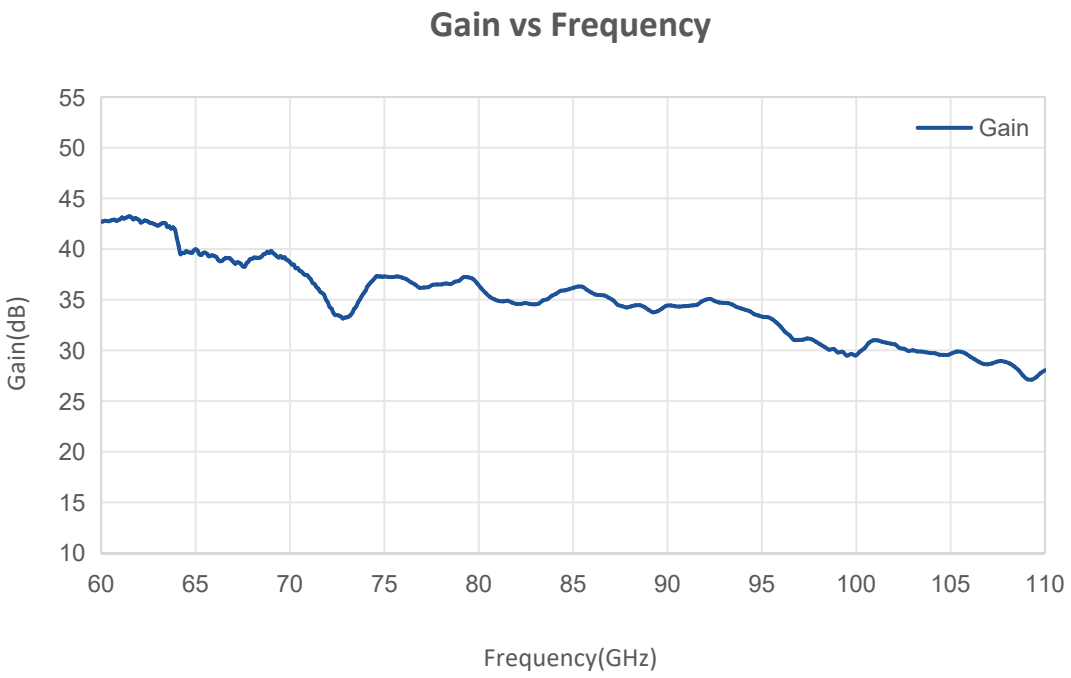
PA-60G-110G-6mW

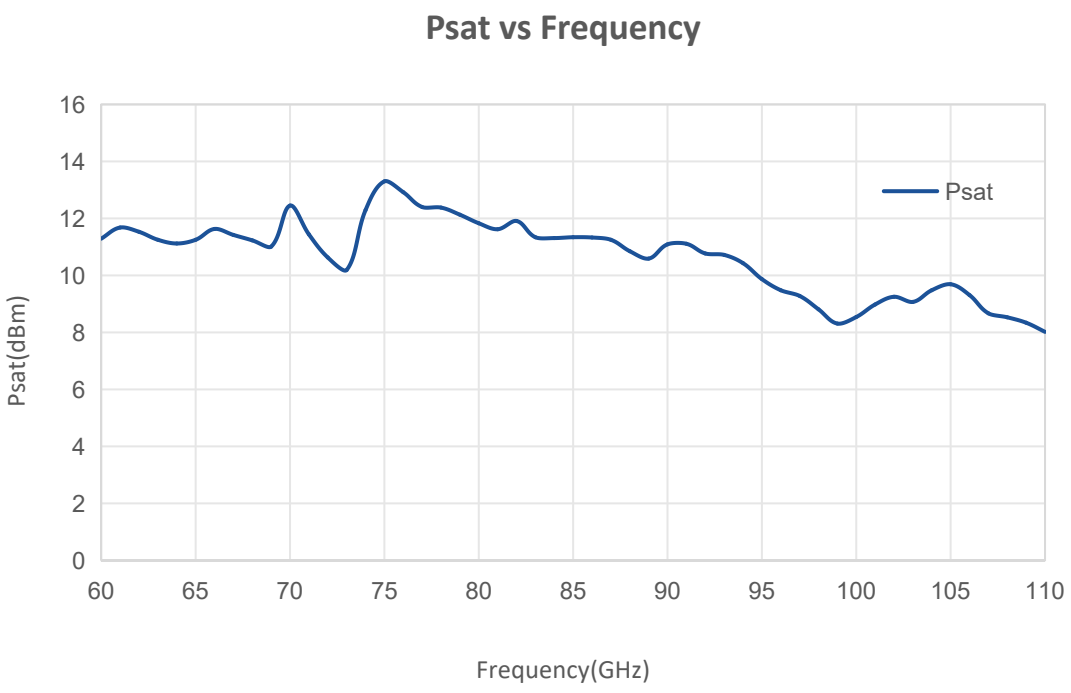


Ordering Information:

Base Number	Description	Optional
PA-60G-110G-6mW	Power Amplifier, 60-110GHz, Gain:30dB,Psat:6mW,+12V DC	Without Heatsink
PA-60G-110G-6mW-HS	Power Amplifier, 60-110GHz, Gain:30dB,Psat:6mW,+12V DC	With Heatsink

Typical Performance Data:





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.