Suzhou Talent Microwave,Inc
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Power Amplifier

6-18GHz/52dB Gain/37dBm Psat

Model: TLPA6G18G-37-37

TLPA6G18G-37-37 is a power amplifier with a typical small signal gain of 52 dB and a minimum Psat of 37 dBm across the frequency range of 6 to 18 GHz. The DC power requirement for the amplifier is +30 VDC/800 mA. The input and output port configuration offers coax adapter structure with SMA female.

Features:

- Frequency range: 6-18GHz
- Gain: 52dB Typ
- Output Power Psat: 37dBm 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	6		18	GHz
Small Signal Gain		52		dB
Output Psat	37			dBm
Spurious			-70	dBc
Harmonic			-10	dBc
Input VSWR		2		:1
DC Voltage		30		V DC
DC Supply Current		800		mA
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Feedthru capacitors	

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Mechanical Specifications:

Parameter	Value	Units
Size	60*100*12(Without heatsink) 100*200*56(With heatsink)	mm
Weight	≤200	g

Absolute Maximum Ratings:

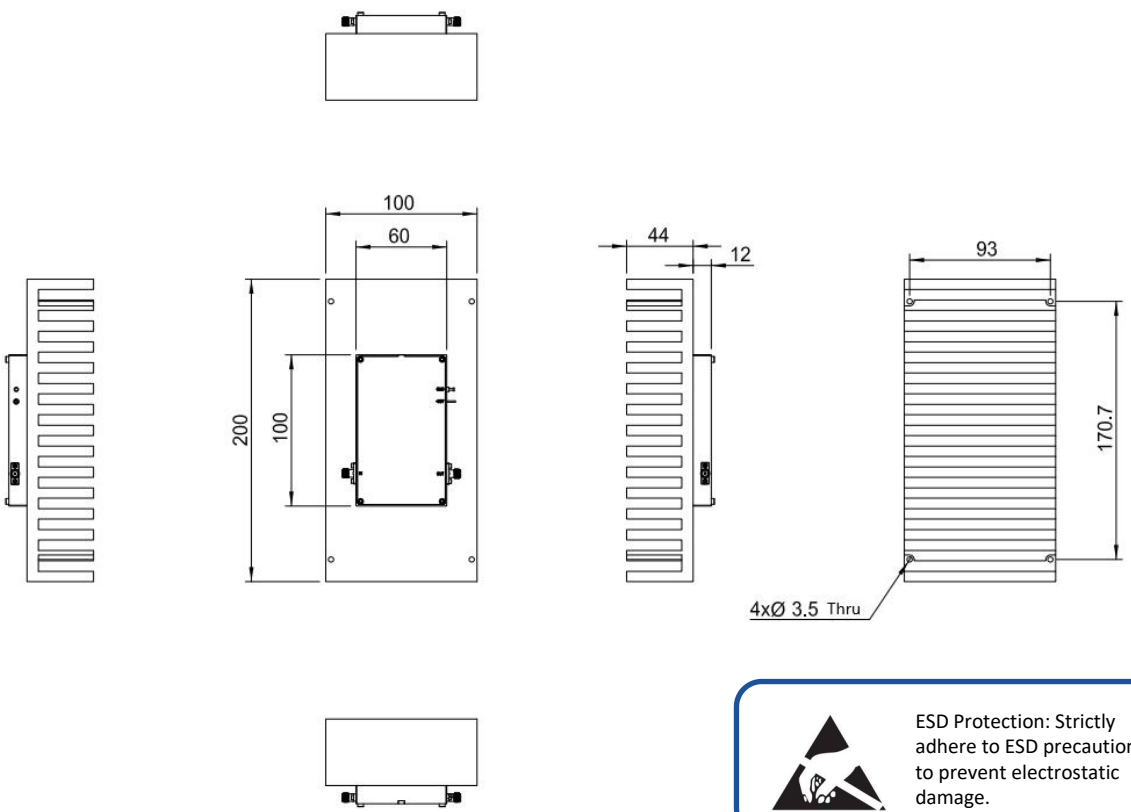
Parameter	Value
Supply Bias Voltage	+32 V
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Simple 220V System
Available SAC option

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

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Environmental Conditions:

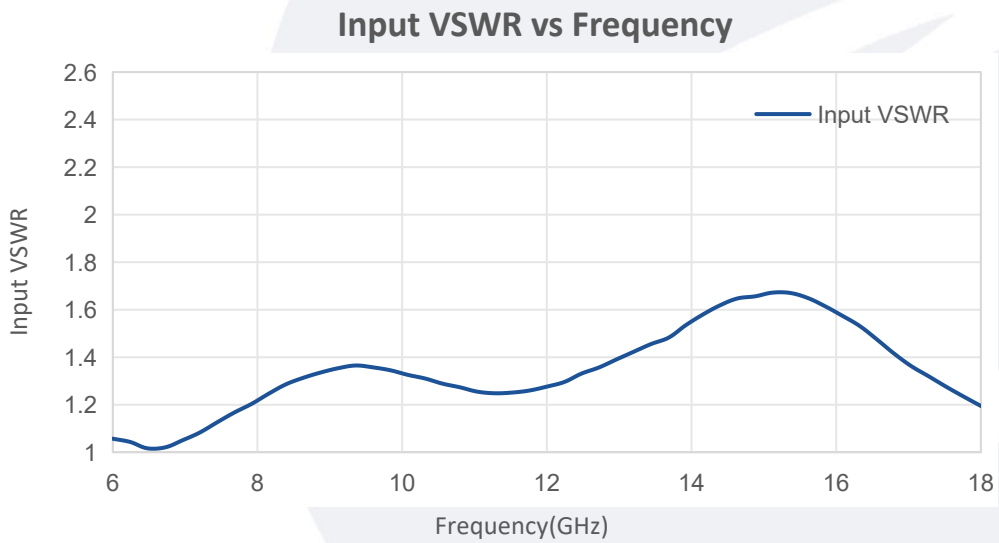
Parameter	Min	Typ	Max	Units
Operating Temperature*	-40		+60	℃
Non-operating Temperature*	-50		+70	℃
Relative humidity		95		%
Altitude	10,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

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

Ordering Information:

Base Number	Description	Revision
TLPA6G18G-37-37	Power amplifier 6-18GHz, Gain:52dB,Psat:37dBm,+30V DC,With Heatsink	Rev.1.2

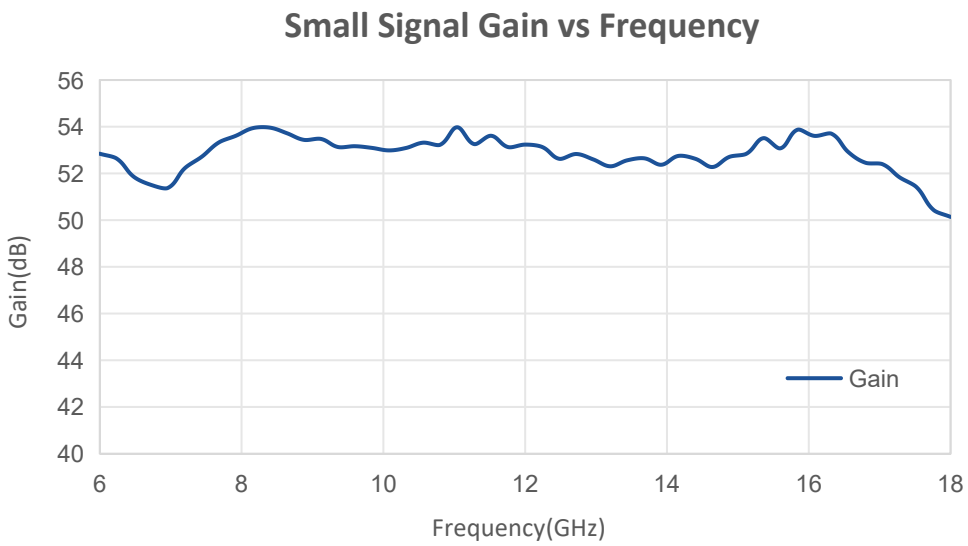
Typical Performance Data:

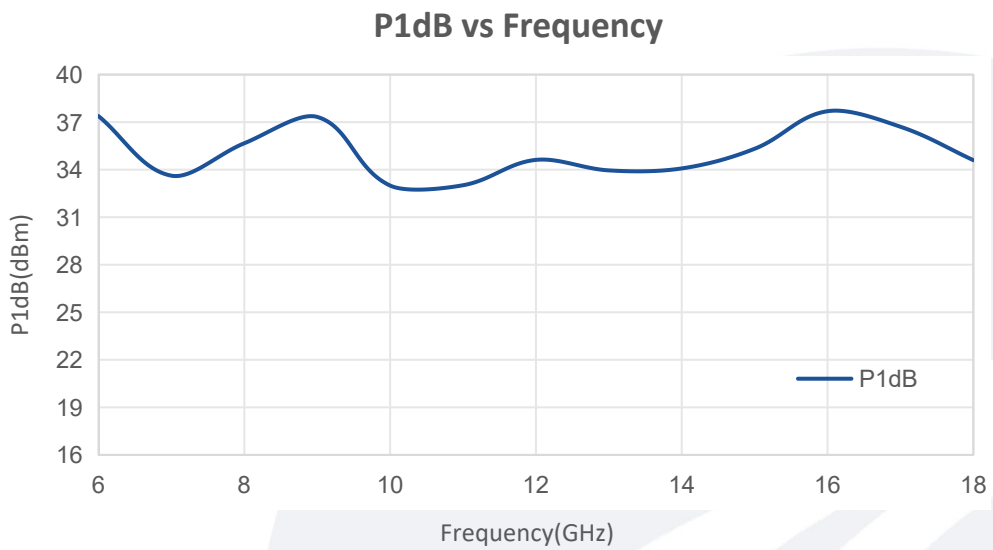


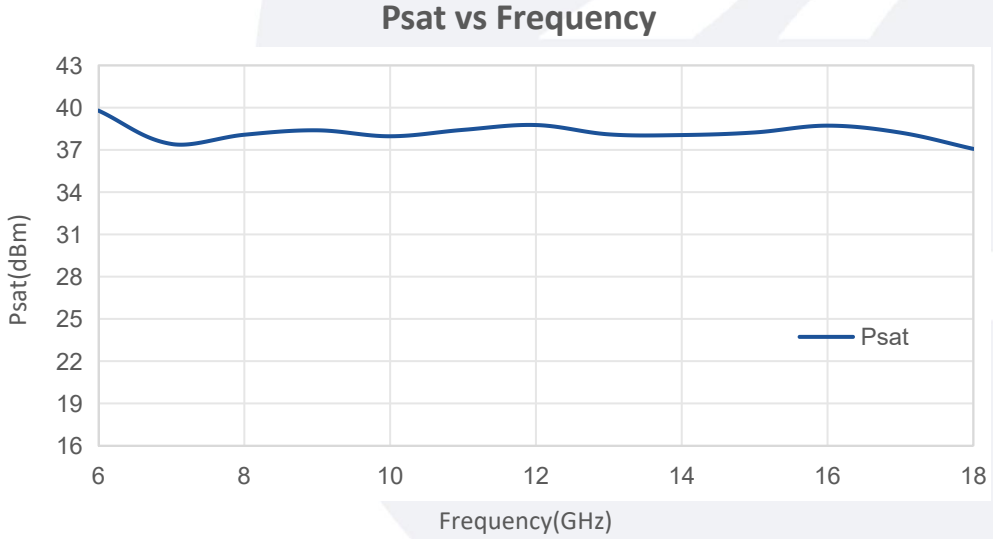
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

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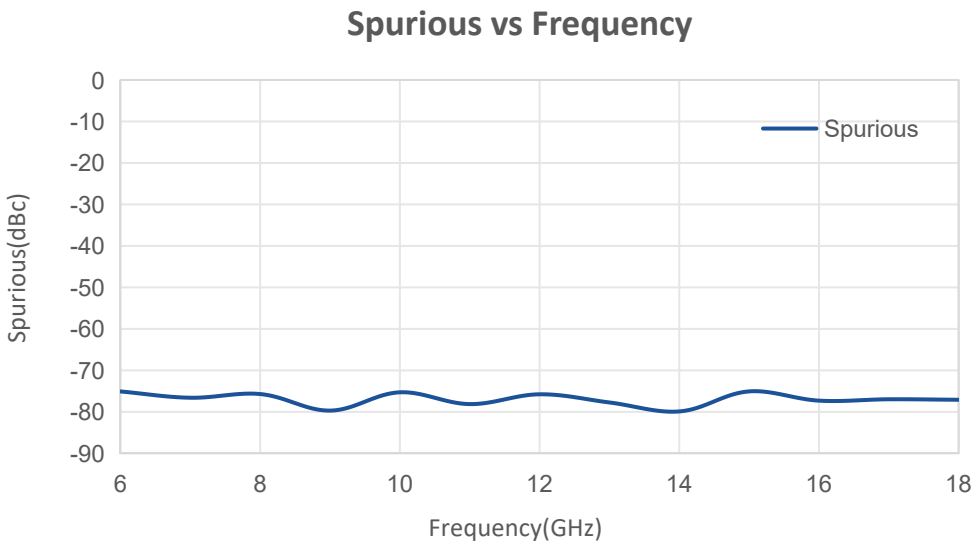


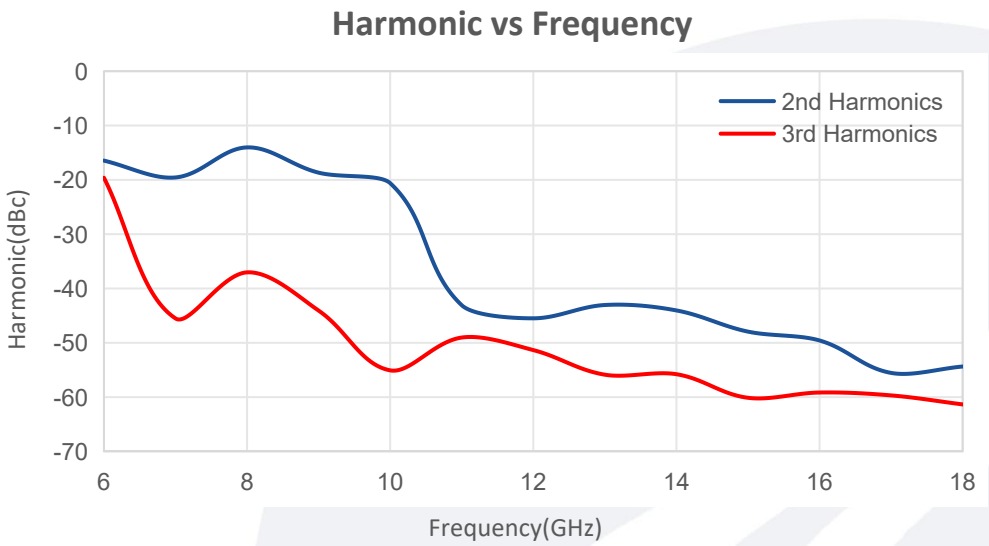


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