

Model:TLPA2G18G-40-40

Power Amplifier 2-18GHz, Gain:40dB, Psat:40dBm

Feature:

- Ultra Wide Band: 2-18GHz
- Gain: 40 dB Typ
- Psat Output Power: 40 dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	2-18			GHz
Gain		40		dB
Gain Flatness		± 4		dB
Output Psat	40			dBm
Supurious			-50	dBc
Harmonic		-10		dBc
Input VSWR			2	:1
DC Voltage	28			V DC
DC Supply Current	3.5			A
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	A1:+28V A2:GND	
Size	130.4*74.5*16	mm
Weight	500	g

Absolute Maximum Ratings:

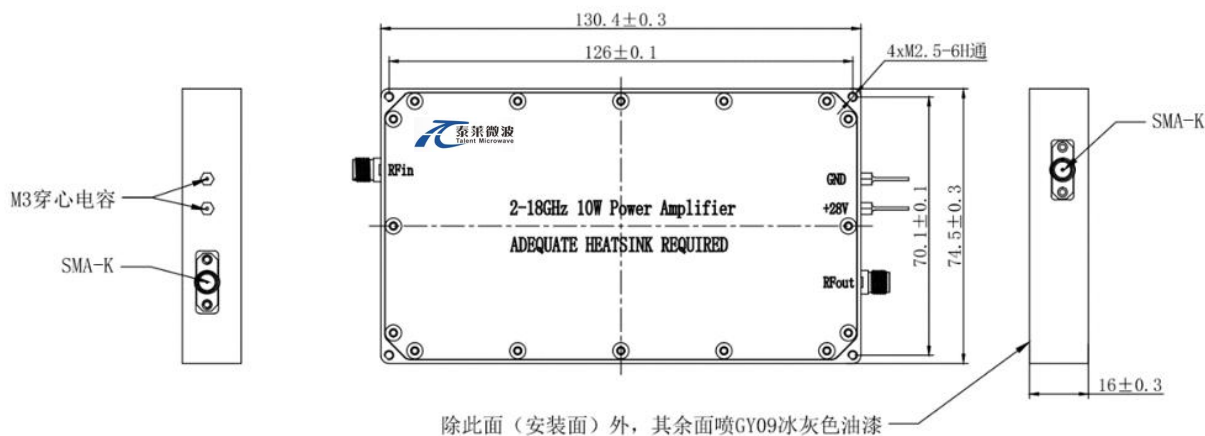
Parameter	Value
Supply Bias Voltage	+30 V
RF Input Power	+10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



***Heat Sink Required During Operation



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

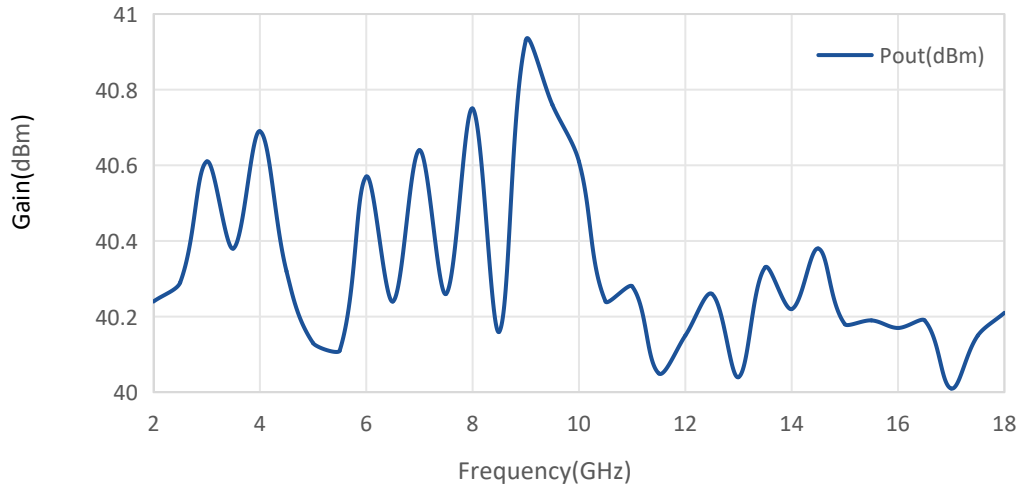
Parameter	Min	Typ	Max	Units
Operating Temperature	0		+50	°C
Non-operating Temperature	-20		+75	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

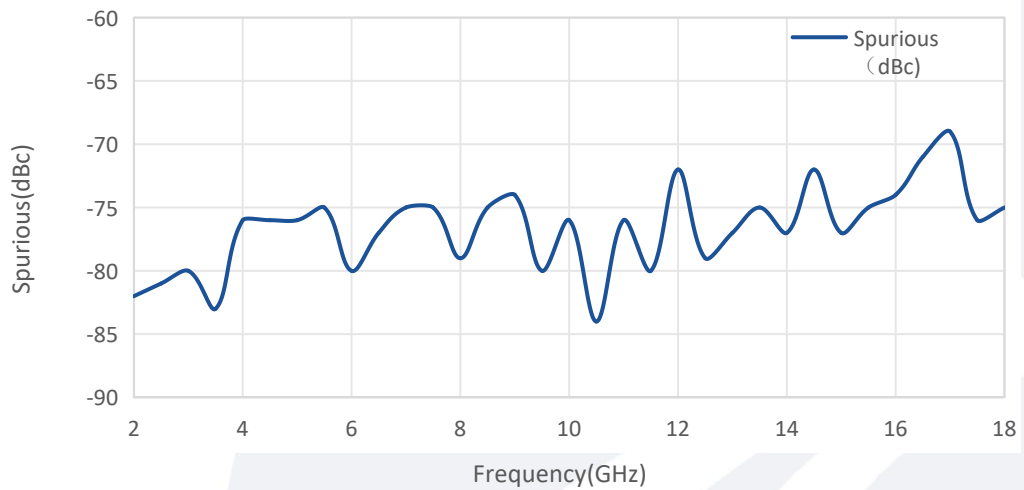
Part Number	Description	Revision
TLPA2G18G-40-40	Power amplifier 2-18GHz,Gain:40dB,Psat:40dBm, +28V DC,Without Heatsink	Rev.1.1
TLPA2G18G-40-40-HS	Power amplifier 2-18GHz,Gain:40dB,Psat:40dBm, +28V DC,With Heatsink	Rev.1.1

Typical Performance Data:

Gain vs Frequency



Spurious vs Frequency



Harmonic vs Frequency

