

Model:TLPA2G18G-43-43**Power Amplifier**
2-18GHz,Gain:43dB,Psat:43dBm**Feature:**

- Ultra Wide Band: 2-18GHz
- Gain:43dB Min
- Psat Output Power: 43dBm Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	2-18			GHz
Gain	43			dB
Gain Flatness		±3		dB
Output Psat	42.5	43		dBm
Spurious			-50	dBc
Harmonics			-10	dBc
Input VSWR			2.0	:1
DC Voltage		+28		V DC
DC Supply Current			4.5	A
Impedance	50			Ohms

Mechanical Specifications:

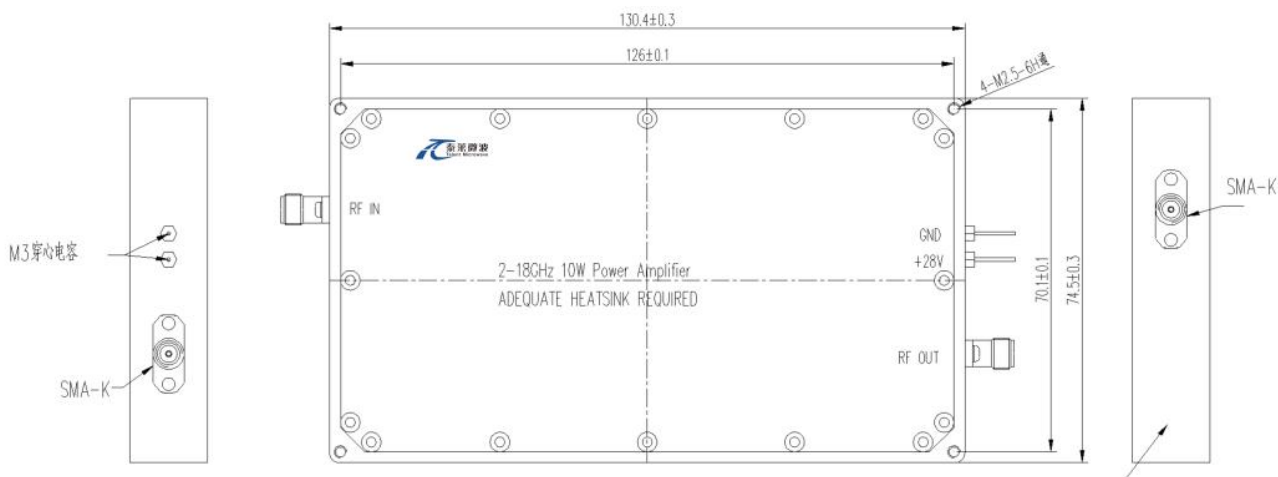
Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	130.4*74.5*16	mm
Weight	800	g

Absolute Maximum Ratings:

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

Outline Drawing:

Unit: mm



***Heat Sink Required During Operation



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

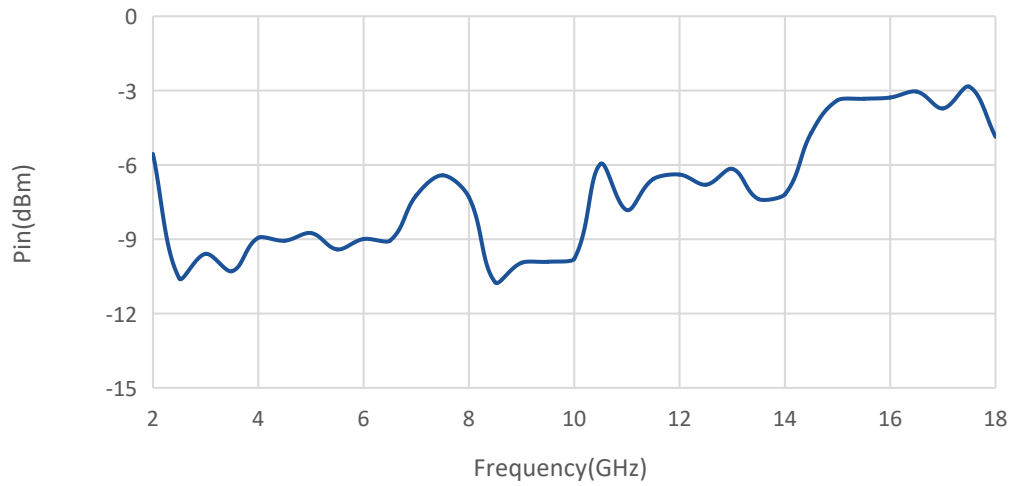
Parameter	Min	Typ	Max	Units
Operating Temperature	-40		+60	°C
Non-operating Temperature	-45		+65	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

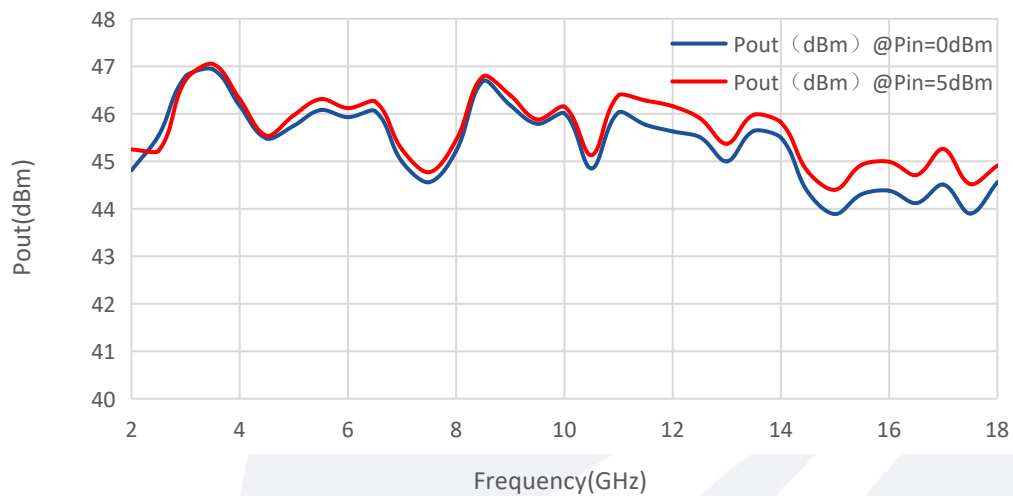
Part Number	Description	Revision
TLPA2G18G-43-43	Power amplifier 2-18GHz,Gain:43dB,Psat:43dBm, +28V DC,Without Heatsink	Rev.1.1
TLPA2G18G-43-43-HS	Power amplifier 2-18GHz,Gain:43dB,Psat:43dBm, +28V DC,With Heatsink	Rev.1.1

Typical Performance Data:

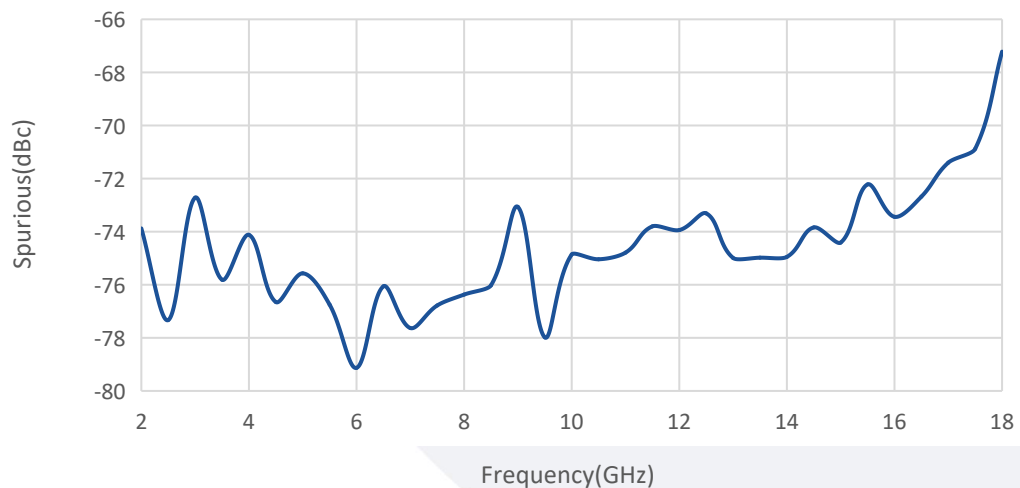
Pin vs Frequency



Pout@Equal_Pin

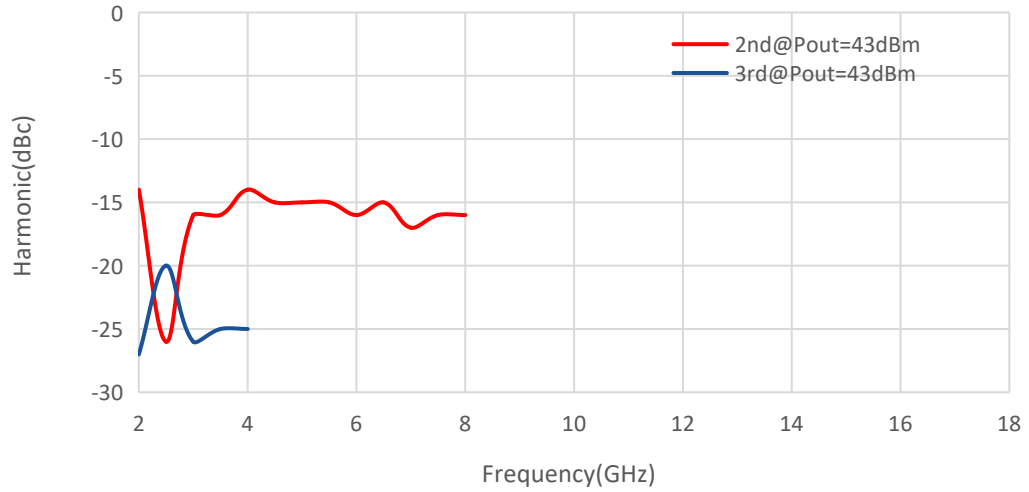


Spurious vs Frequency



Typical Performance Data:

Harmonic vs Frequency



P1dB vs Frequency

