

Model:TLPA0.8G18G-37-37

Power Amplifier

0.8-18GHz,Gain:37dB,Psat:37dBm

Feature:

- Ultra Wide Band: 0.8-18GHz
- Gain:37dB Min
- Psat Output Power:37dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	0.8-18			GHz
Gain	37			dB
Gain Flatness			±2.5	dB
Output Psat	37			dBm
Spurious@Pout=37dBm			-60	dBc
Harmonics@Pout=37dBm		-20		dBc
Load VSWR Protection	3.0:1 (< 1minute at rated pout)			
Input VSWR			2	:1
DC Voltage		+28		V DC
DC Supply Current			3	A
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	J30J-9ZKP	
Size	150*90*20	mm
Weight	≤1000	g

Absolute Maximum Ratings:

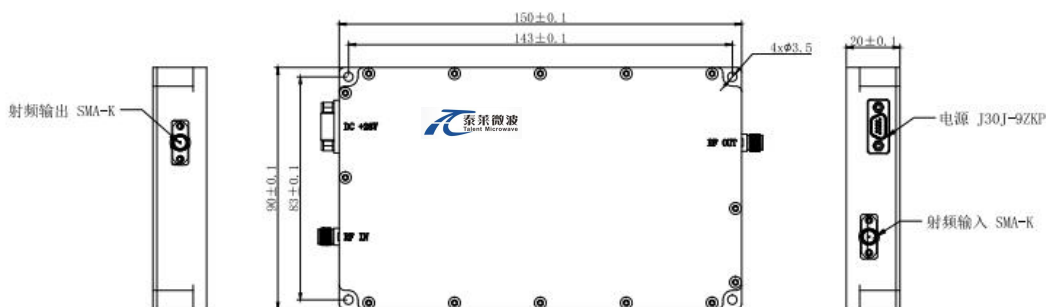
Parameter	Value
Supply Bias Voltage	TBD
RF Input Power	0 dBm (< 10 sec without damage)
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



引脚 Pin	功能 Function
1-5	+28V
6-9	GND

***Heat Sink Required During Operation

Environmental Conditions:



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

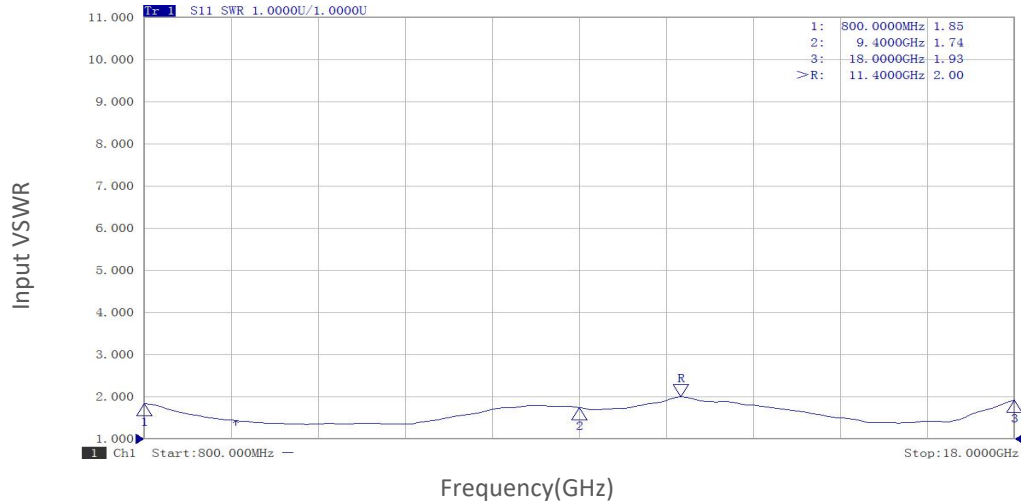
Parameter	Min	Typ	Max	Units
Operating Temperature	-20		+65	°C
Non-operating Temperature	-40		+85	°C
Relative humidity	5-95			%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

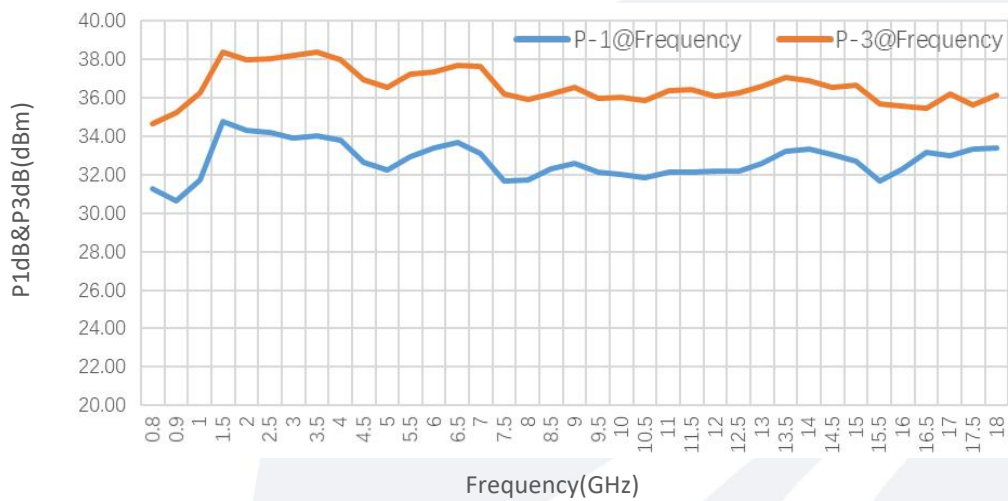
Part Number	Description	Revision
TLPA0.8G18G-37-37	Power amplifier 0.8-18GHz, Gain:37dB, Psat:37dBm, +28V DC, Without Heatsink.	Rev.1.0
TLPA0.8G18G-37-37-HS	Power amplifier 0.8-18GHz, Gain:37dB, Psat:37dBm, +28V DC, With Heatsink.	Rev.1.0

Typical Performance Data:

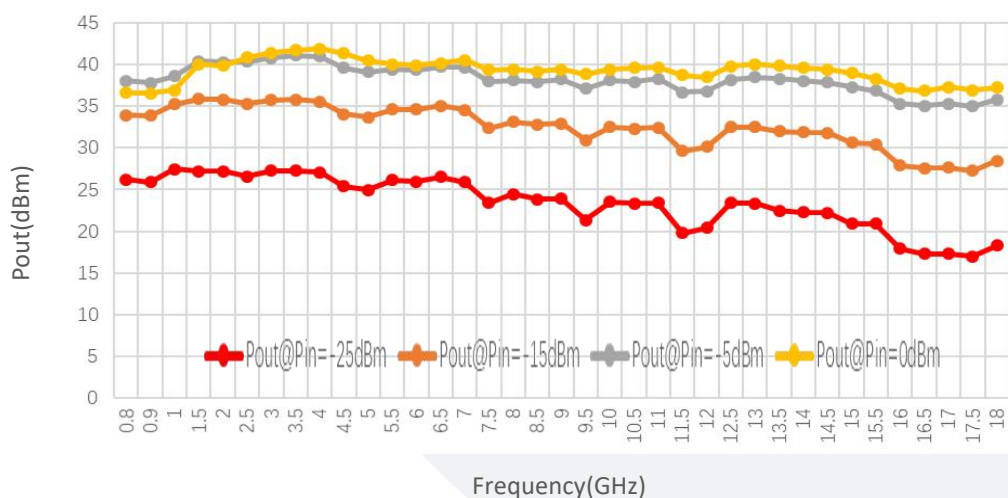
Input VSWR vs Frequency



P1dB&P3dB vs Frequency

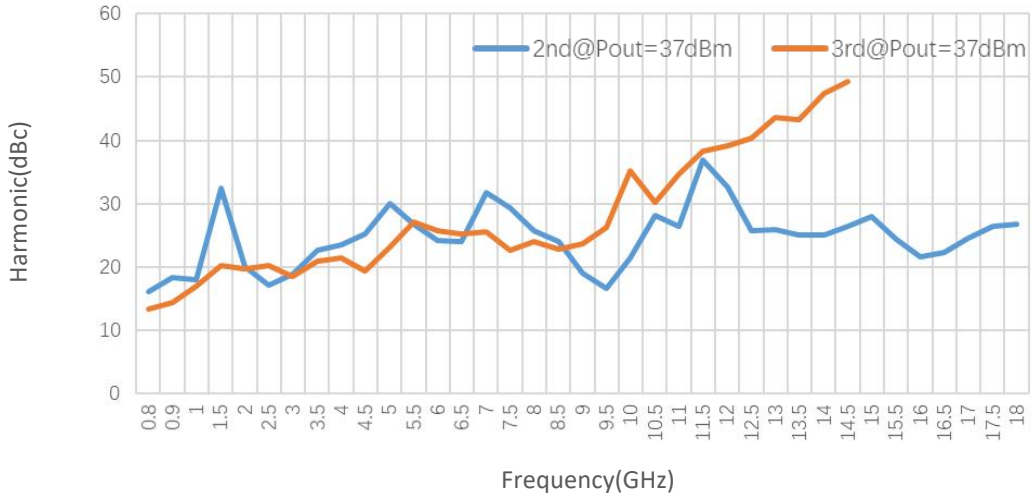


Pout@Equal_Pin

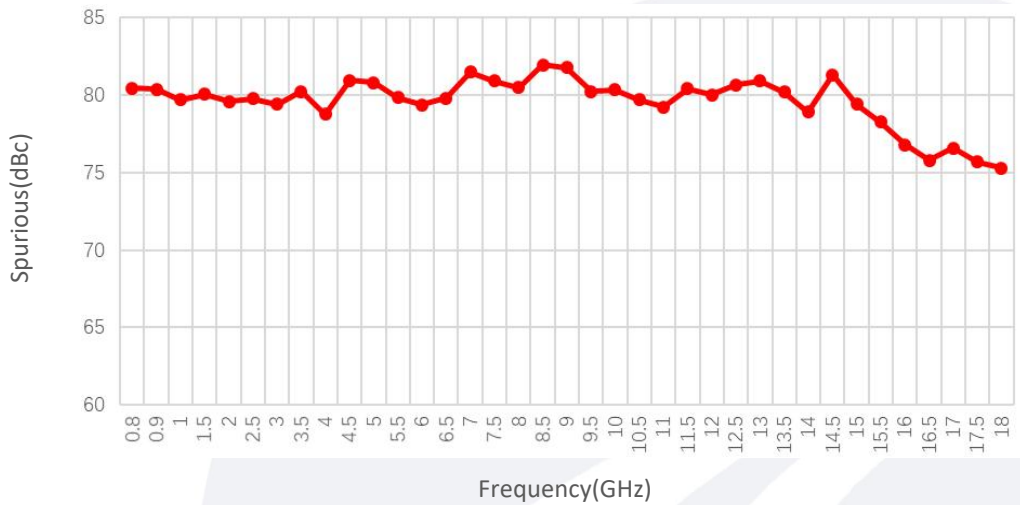


Typical Performance Data:

Harmonic vs Frequency



Spurious vs Frequency



Pout@Pin

