

Model:TLPA6G18G-50-51

Power Amplifier 6-18GHz, Gain:50dB, Psat:51dBm

Feature:

- Ultra Wide Band: 6-18GHz
- Gain: 50 dB Min
- Psat Output Power: 51 dBm Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	6-18			GHz
Gain	50			dB
Gain Flatness		±3.5	±5	dB
Output Psat	50.5	51		dBm
Spurious@Pout=47dBm			-60	dBc
Harmonics@Pout=47dBm			-10	dBc
Input VSWR			2.0	:1
DC Voltage	+28			V DC
Power Consumption	1500@Max			W
Impedance	50			Ohms

Mechanical Specifications:

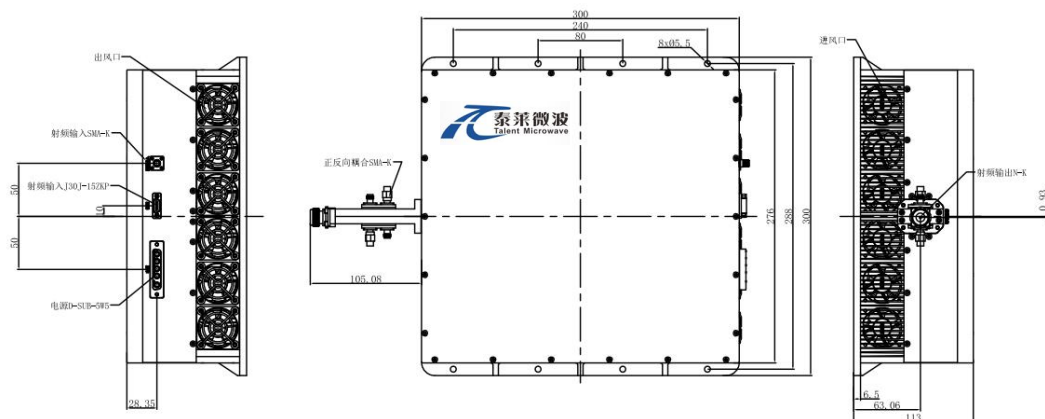
Parameter	Value	Units
Input /Output Connector	SMA Female/WRD500	
DC Bias	D-SUB-5W5	
Forward/Reverse Coupling	SMA Female/SMA Female	
尺寸 Size	300*300*113	mm
Weight	11	Kg

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+28V
RF Input Power	10dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit: mm



J30J-15ZKP



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

J30J-15ZKP Define	
Pin	Function
Pin1	Voltage Monitor
Pin2	Current Monitor
Pin3	Temperature Monitor
Pin4	0.5dB Attenuation
Pin5	1dB Attenuation
Pin6	2dB Attenuation
Pin7	4dB Attenuation
Pin8	8dB Attenuation
Pin9	16dB Attenuation
Pin10	TTL(high for open,low for close)
Pin11-15	GND

D-SUB-5W5

D-SUB5W5 Define	
Pin	Function
A1	+28V
A2	+28V
A3-A5	GND

Environmental Conditions:

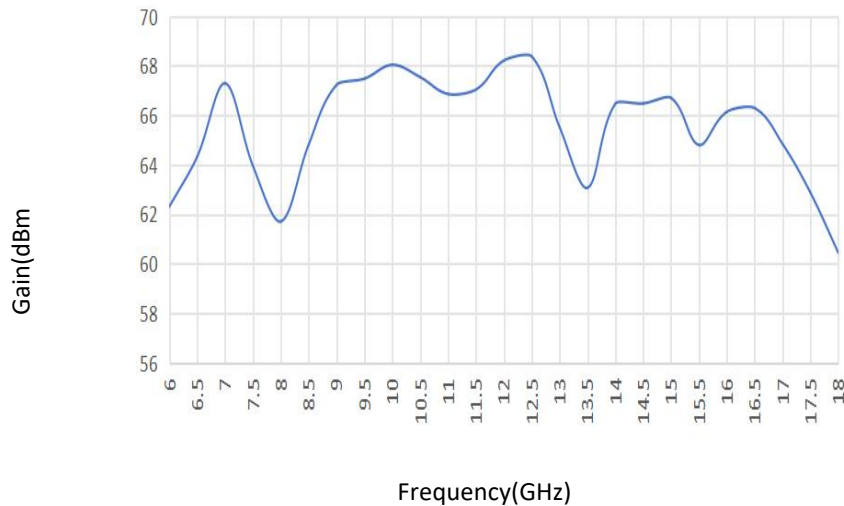
Parameter	Min	Typ	Max	Units
Operating Temperature	-20		+40	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	30,000			feet
Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

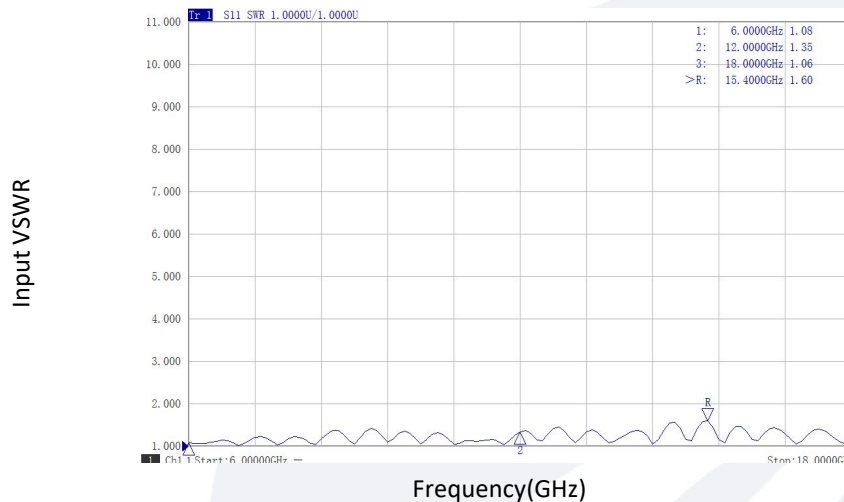
Part Number	Description	Revision
TLPA6G18G-50-51	Power amplifier 6-18GHz,Gain:50dB,Psat:51dBm, +28V DC,Built in Fan Cooling	Rev.1.1

Typical Performance Data:

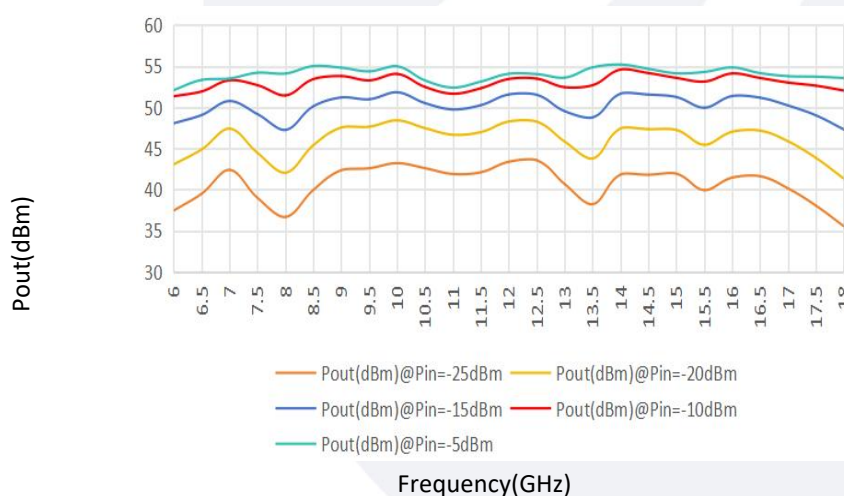
Gain vs Frequency



Input VSWR VS Frequency

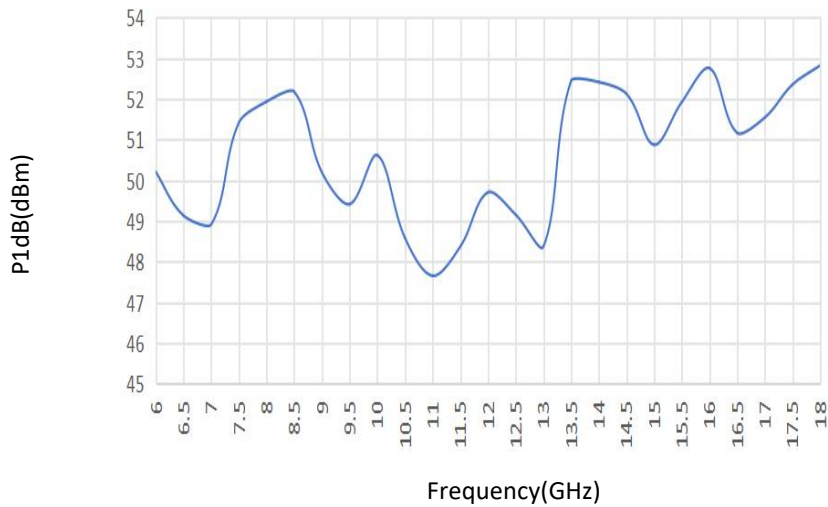


Pout@Equal_Pin

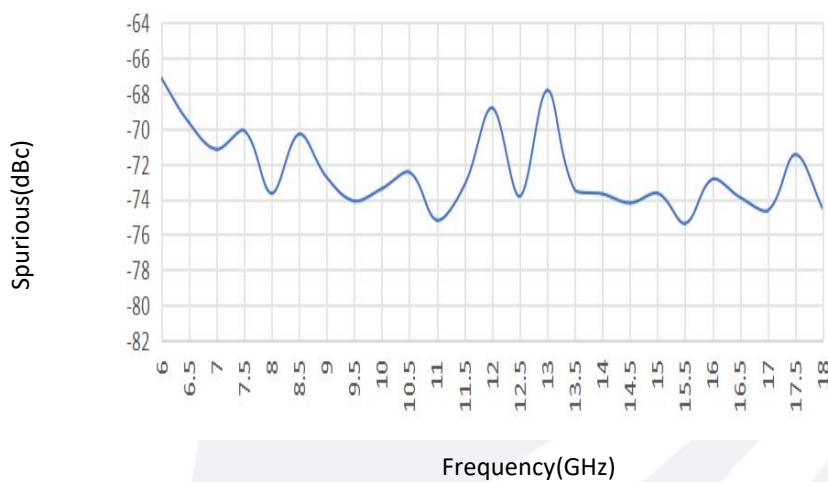


Typical Performance Data:

P1dB VS Frequency



Spurious@Pout=50dBm



Harmonic@Pout=50dBm

