

Model:TLPA6G18G-60-53

Power Amplifier 6-18GHz,Gain:60dB,Psat:53dBm

Feature:

- Ultra Wide Band: 6-18GHz
- Gain:60dB Min
- Psat Output Power:53dBm Min
- Protection:Over TEM,over voltage, over current protection
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	6-18			GHz
Gain	60			dB
Gain Flatness		±3.5	±5	dB
Output Psat	53			dBm
Harmonics@Pout=50dBm			-55	dBc
Harmonics@Pout=50dBm		-20	-15	dBc
DC Voltage		+28		V DC
Power Consumption			3500	W
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/WRD500	
DC Power Interface	Y50DX-1804	
Size	270*276*207.25	mm
Weight	25	Kg

Absolute Maximum Ratings:

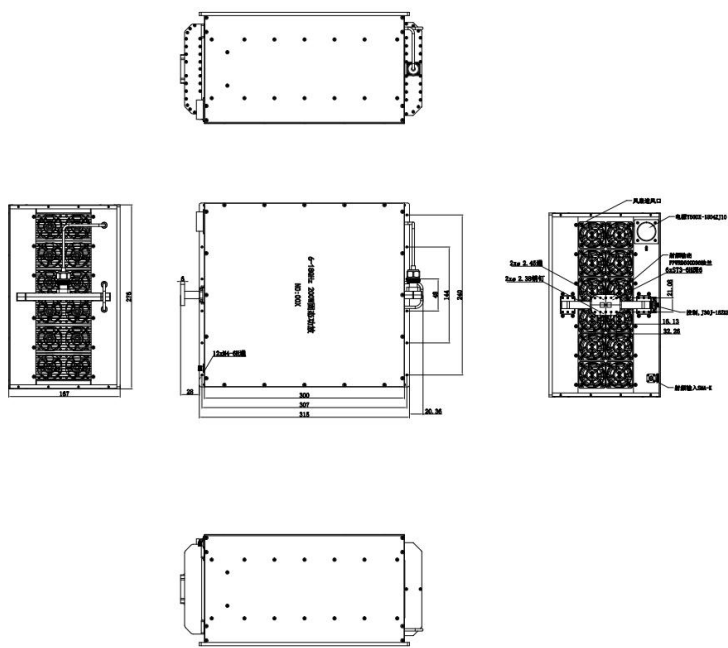
Parameter	Value
Supply Bias Voltage	TBD
RF Input Power	10dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



Y50DX-1904 Define	
引脚 Pin	功能 Function
Pin1-2	+28V
Pin3-4	GND



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

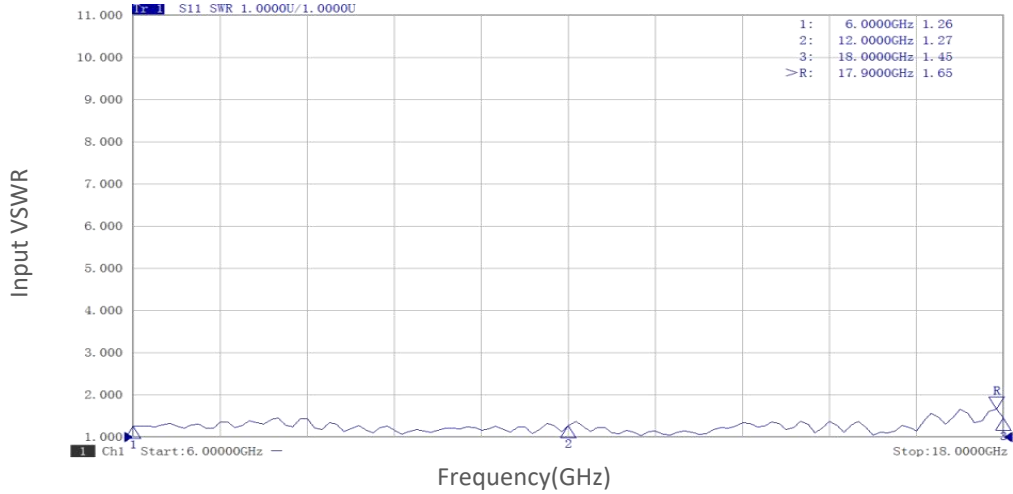
Parameter	Min	Typ	Max	Units
Operating Temperature	-20		+40	°C
Non-operating Temperature	-45		+65	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

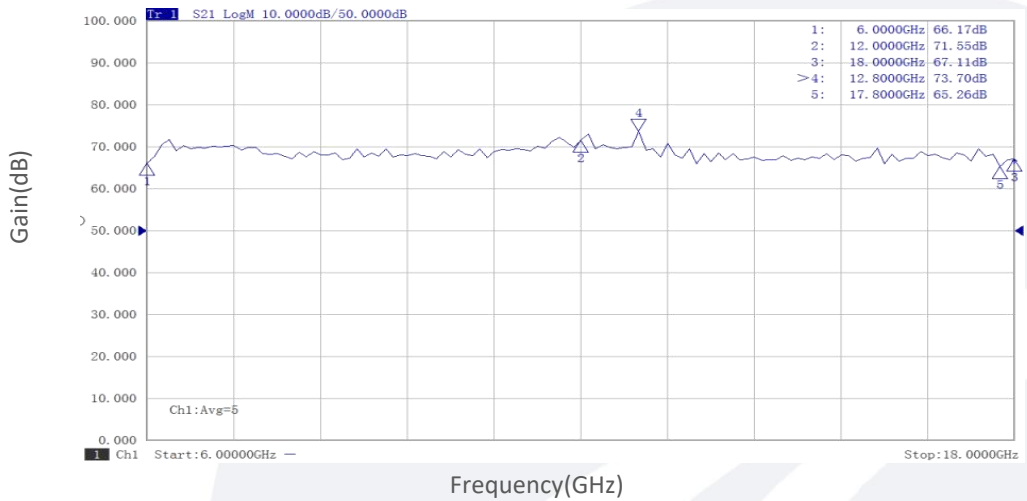
Part Number	Description	Revision
TLPA6G18G-60-53	Power amplifier 6-18GHz,Gain:60dB,Psat:53dBm,+28V DC,Built in Fan Cooling .	Rev.1.1

Typical Performance Data:

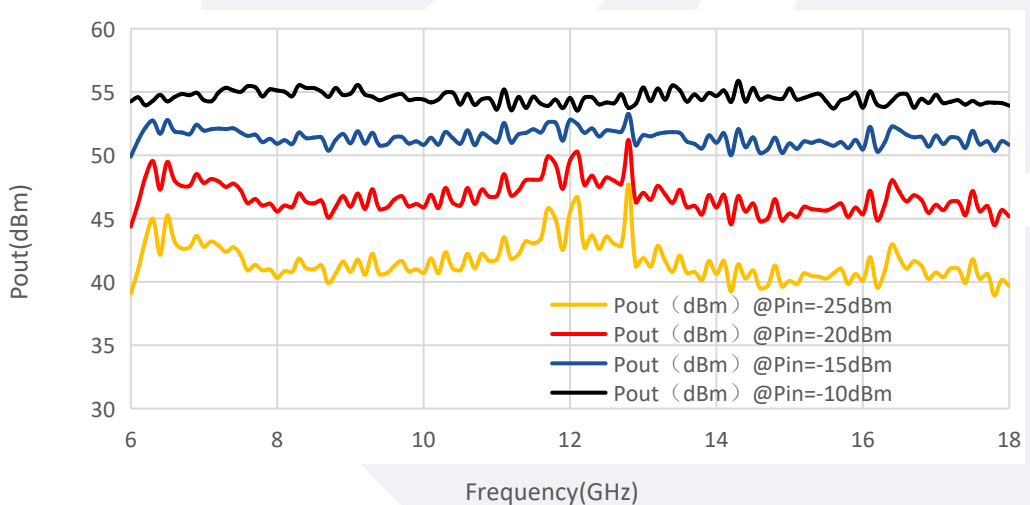
Input VSWR vs Frequency



Gain vs Frequency

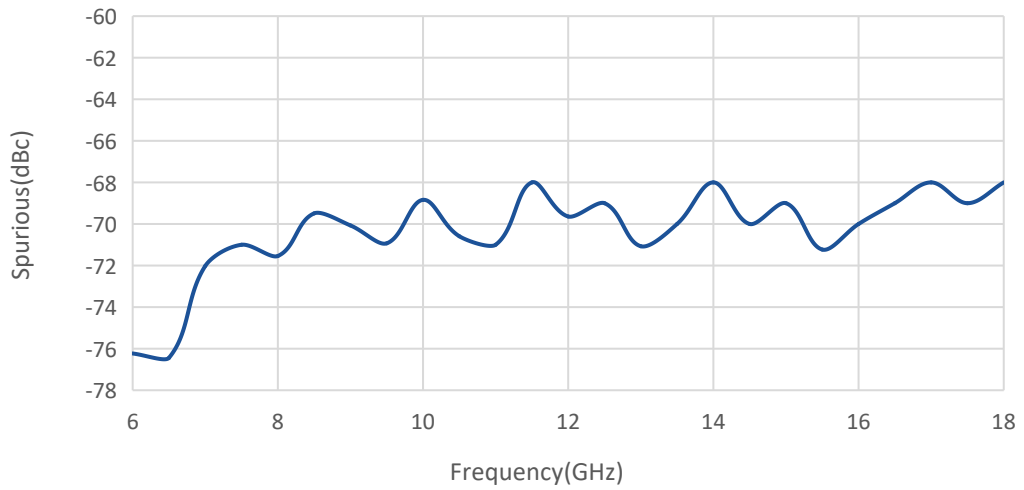


Pout vs Frequency



Typical Performance Data:

Spurious vs Frequency



Harmonic vs Frequency

