

Model:TLPA15G43G-35-33

Power Amplifier

15-43GHz,Gain:35dB,Psat:33dBm

Feature:

- Ultra Wide Band: 15-43GHz
- Gain:35dB Min
- Psat Output Power:33dBm Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	15-43			GHz
Gain	35			dB
Gain Flatness		±2		dB
Output P1dB	30			dBm
Output Psat		33		dBm
Spurious@Pout=30dBm			-50	dBc
Input VSWR			2	:1
DC Voltage		+24		V DC
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	2.92 Female/2.92 Female	
DC Bias	Solder Pin	
Size	150*90*20	mm
Weight	500	g

Absolute Maximum Ratings:

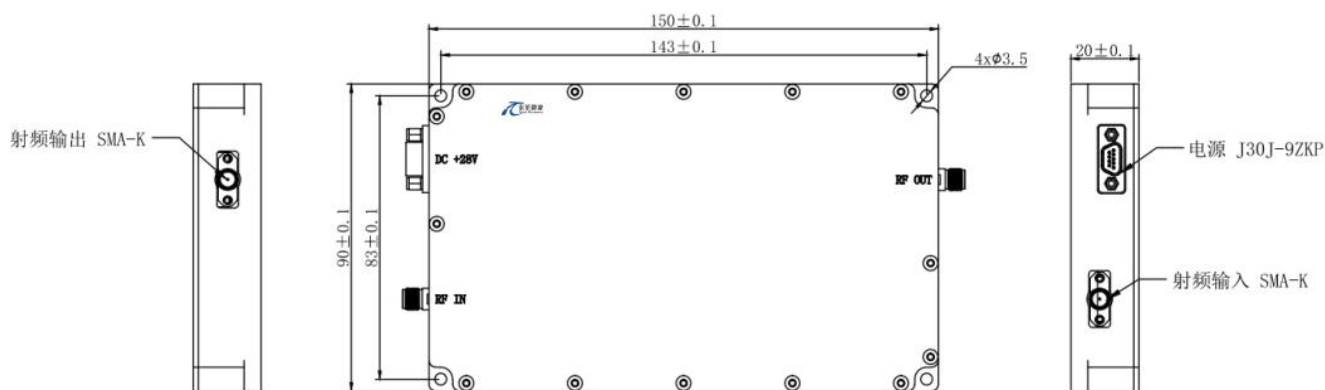
Parameter	Value
Supply Bias Voltage	1-5:+24V 6-9:GND
RF Input Power	0dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



J30J-9ZKP	
Pin	Function
1-5	+24V
6-9	GND

*****Heat Sink Required During Operation**

Environmental Conditions:



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

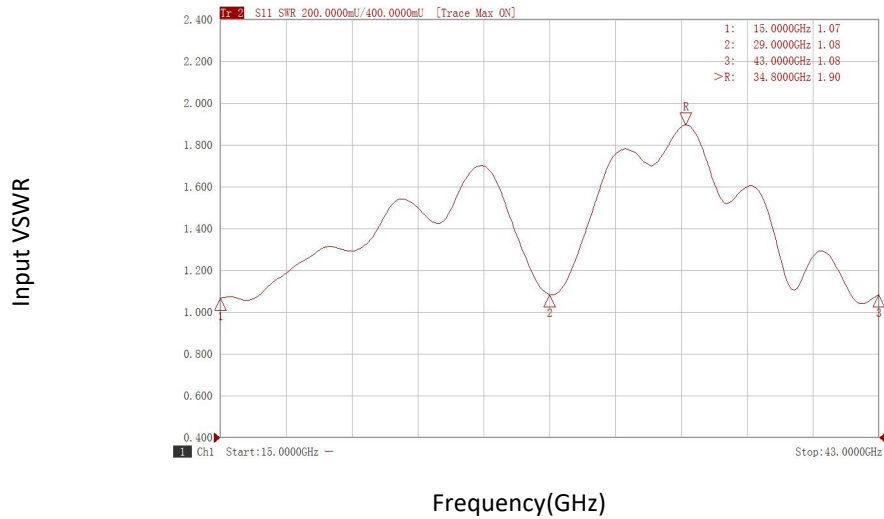
Parameter	Min	Typ	Max	Units
Operating Temperature	-25		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity	100%RH at 35°C, 95%RH at 40°C			%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

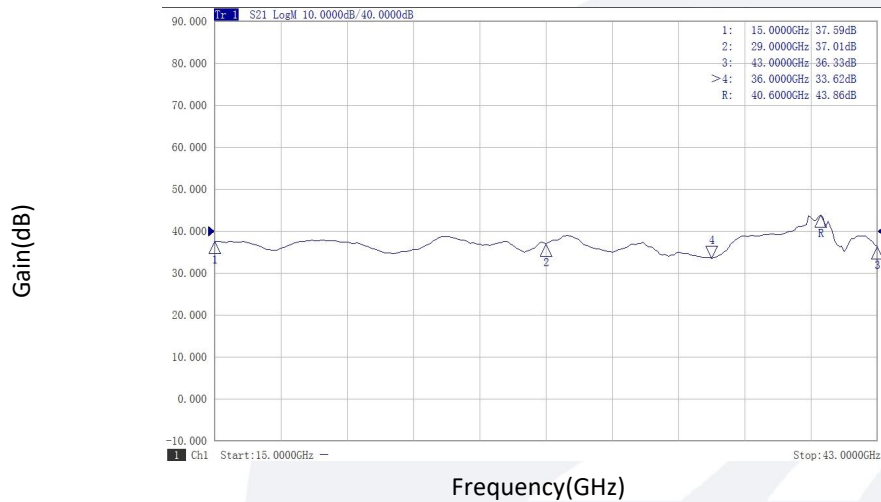
Part Number	Description	Revision
TLPA15G43G-35-33	Power amplifier 15-43GHz,Gain:35dB,Psat:33dBm,+24V DC,Without Heatsink.	Rev.1.1
TLPA15G43G-35-33-HS	Power amplifier 15-43GHz,Gain:35dB,Psat:33dBm,+24V DC,With Heatsink.	Rev.1.1

Typical Performance Data:

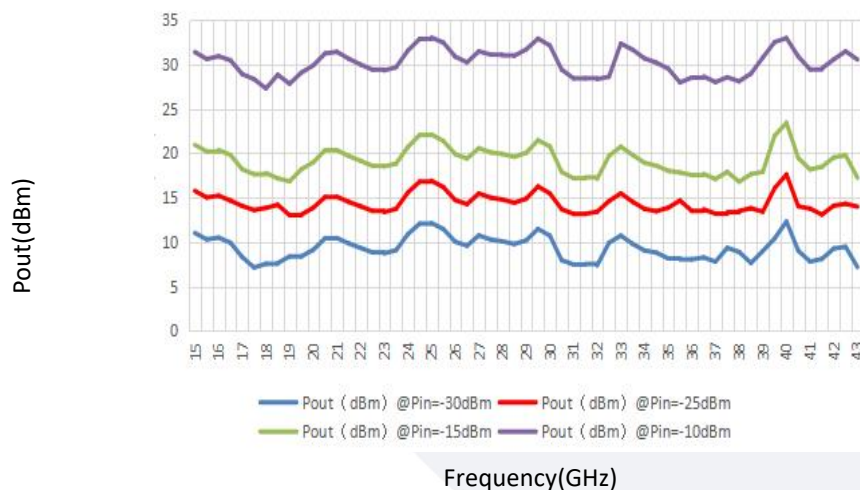
Input VSWR vs Frequency



Gain vs Frequency

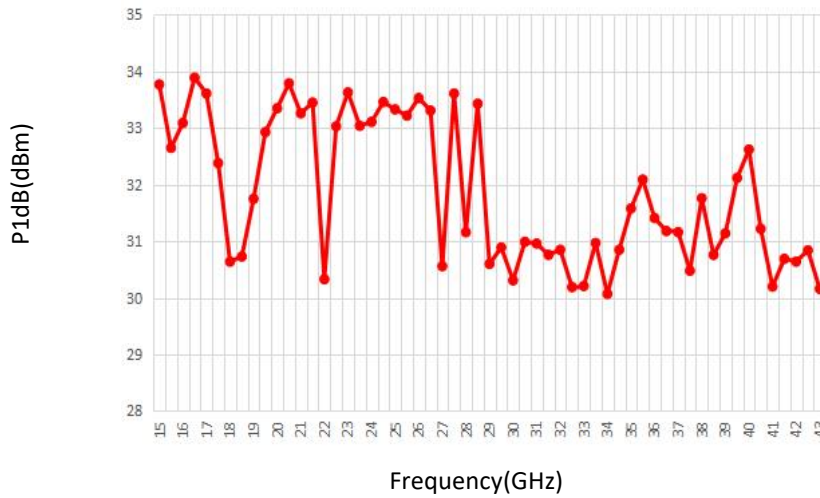


Pout@Equal_Pin

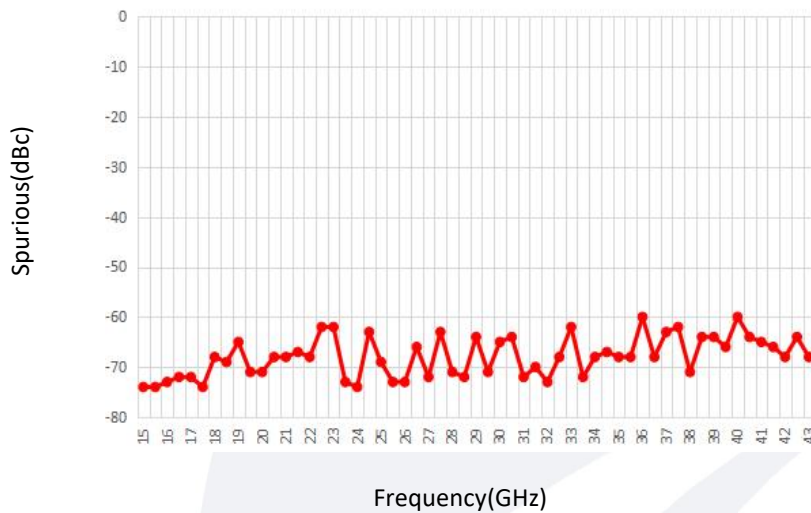


Typical Performance Data:

P1dB vs Frequency



Spurious@Pout=30dBm



Pout@Pin

