

Model:TLPA0.3G2G-50-50

Power Amplifier

0.3-2GHz,Gain:50dB,Psat:50dBm

Feature:

- Ultra Wide Band: 0.3-2GHz
- Gain:50dB Min
- Psat Output Power:50dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	0.3-2			GHz
Gain	50			dB
Gain Flatness			±1.5	dB
Output Psat	50			dBm
Spurious@Pout=50dBm			-60	dBc
Harmonics@Pout=50dBm			-10	dBc
Input VSWR			2	:1
DC Voltage		+40		V DC
Power Consumption			850	W
Impedance	50			Ohms

Mechanical Specifications:

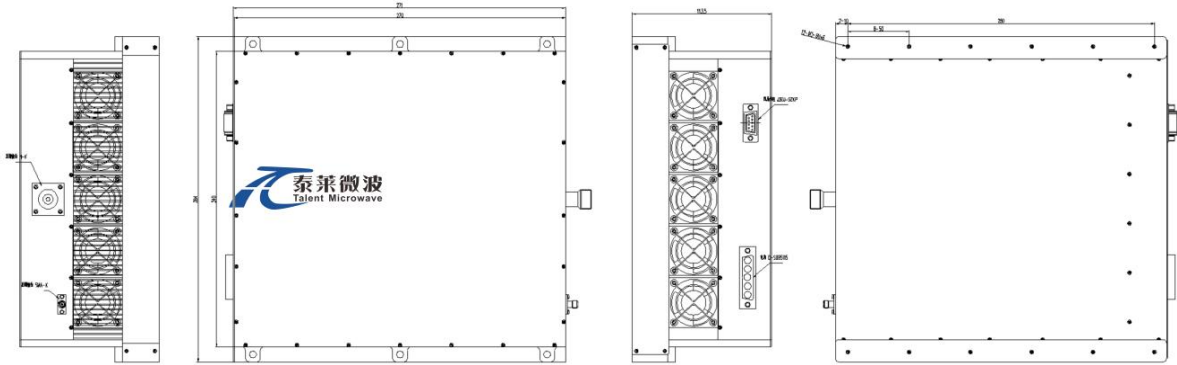
Parameter	Value	Units
Input /Output Connector	SMA Female/N Female	
DC Power Interface	D-SUB5W5	
Size	271*264*113.5	mm
Weight	15	Kg

Kye Features:

Parameter	Advantages
Built-in protections	Output Power, Temperature, Voltage, Current
Protection functions	Over TEM, Over voltage, Over current protection, Over VSWR
Built-in Control	Shutdown

Outline Drawing:

Unit: mm



SUB-5W5 Define	
Pin	Function
A1-A2	+28V
A3-A5	GND

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

Environmental Conditions:



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

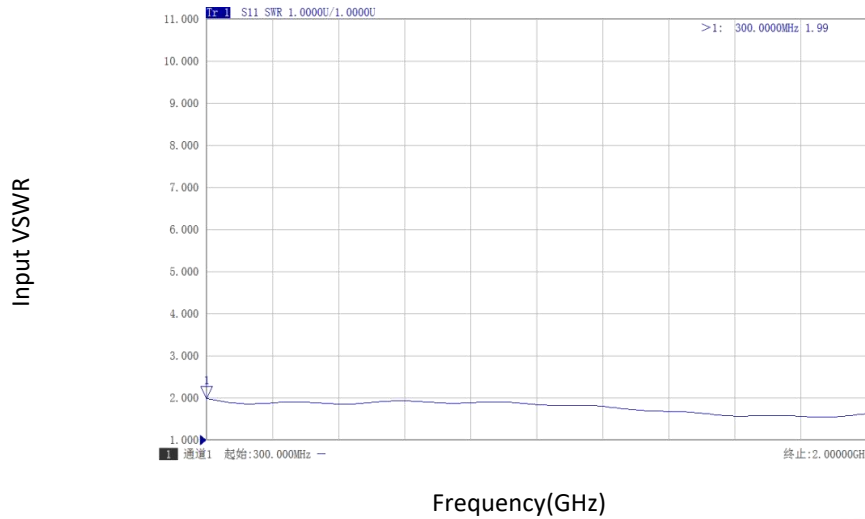
Parameter	Min	Typ	Max	Units
Operating Temperature	-40		+60	°C
Non-operating Temperature	-45		+65	°C
Relative humidity		95		%
Altitude		50,000		feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

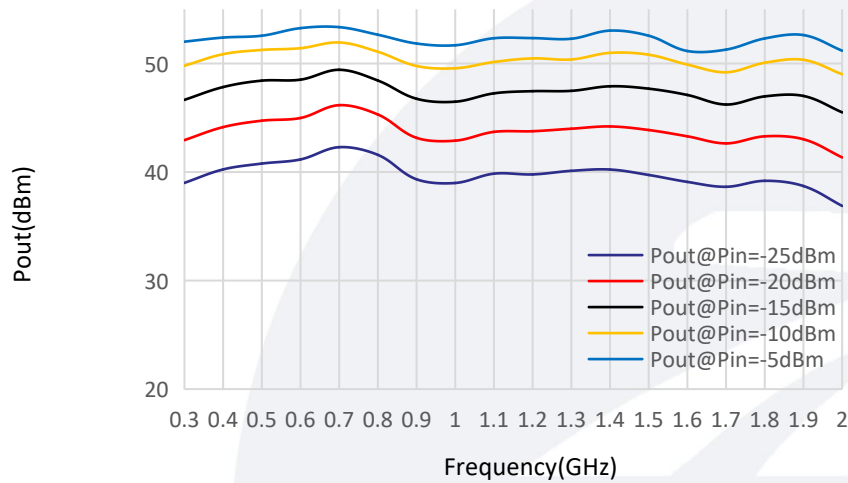
Part Number	Description	Revision
TLPA0.3G2G-50-50	Power amplifier 0.3-2GHz,Gain:50dB,Psat:50dBm,+40V DC,Protection:Over TEM,over voltage, over current,over reflection and Fault location Protection.	Rev.1.1

Typical Performance Data:

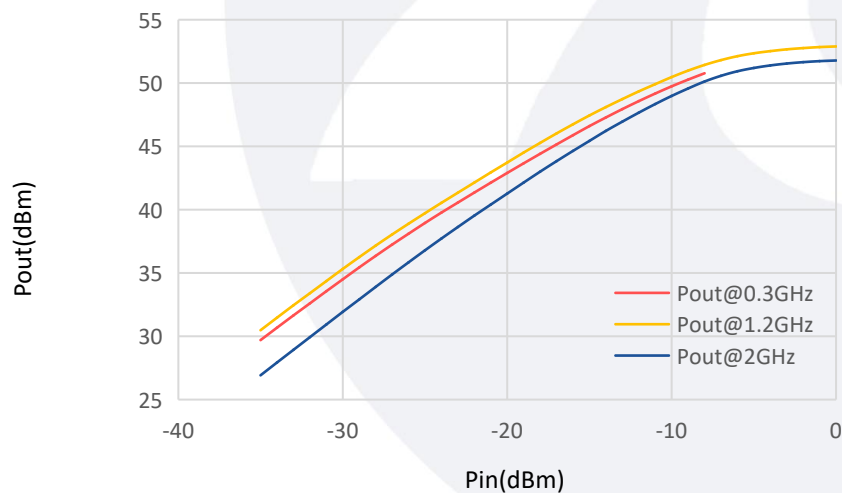
Input VSWR vs Frequency



Pout@Equal_Pin

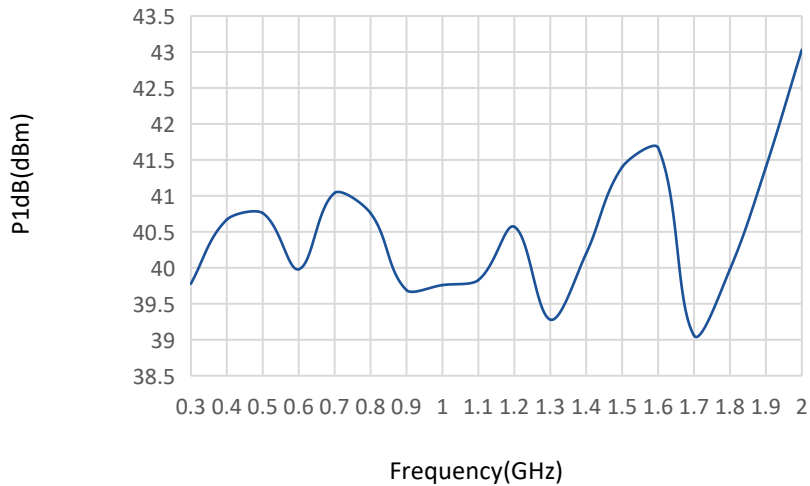


Pout@Pin

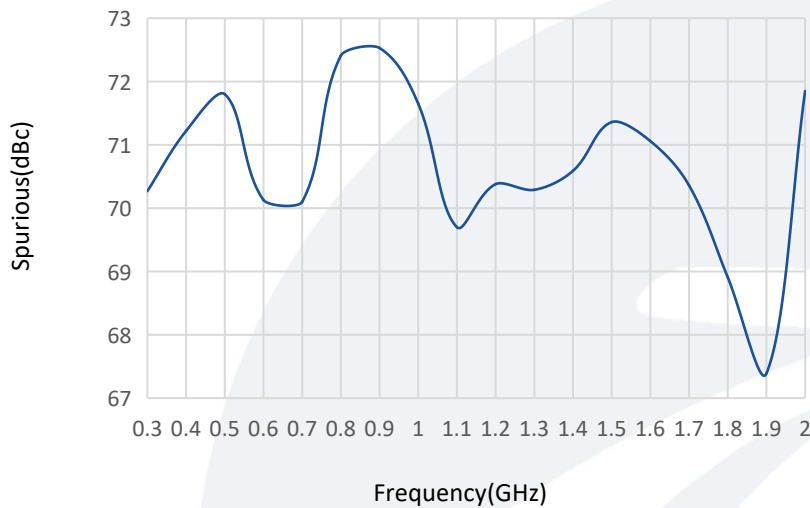


Typical Performance Data:

P1dB vs Frequency



Spurious VS Frequency



Harmonics VS Frequency

