

Model:TLPA1G6G-45-45-BC
**Solid State High Power Amplifier Systems
 1-6GHz,Gain:45dB,Psat:45 dBm,220V AC**
Feature:

- Wide Band: 1-6GHz
- Gain: 45dB Min
- Psat Output Power:45dBm Min
- Good Power and Gain Flatness.
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Symbo	Min	Typ	Max	Units
Frequency range	BW	1-6			GHz
Gain	GP	45	47		dB
Gain flatness	Δ GL		\pm 4	\pm 5	dB
Output P1dB	P1dB		42		dBm
Output Psat	Psat	45	46		dBm
Spurious@Pout=54dBm	Spur			-60	dBc
Harmonics@Pout=54dBm	HAM			-10	dBc
Input VSWR	VSWRin		1.5	2.0	:1
AC Voltage	Vac	110	220		V AC
AC Supply Current	Iac	2A@220V AC			A
Impedance	I/O-IMP	50			Ohms

Mechanical Specifications:

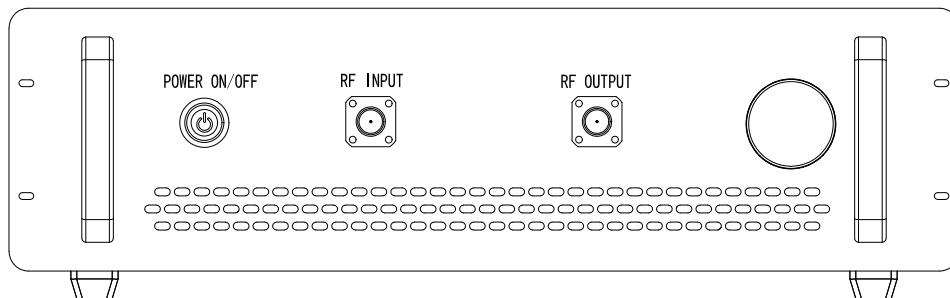
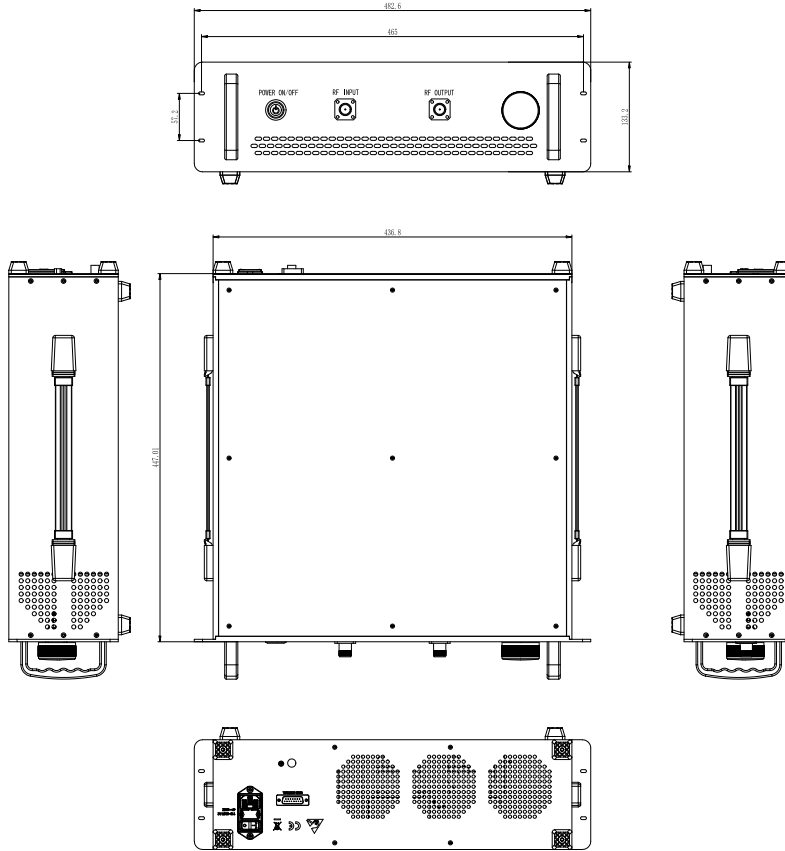
Parameter	Value	Units
Input /Output Connector	N Female/N Female	
Size	3U*500 depth	mm
Weight	27	Kg

Absolute Maximum Ratings:

Parameter	Value
RF Input Power	5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit: mm



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	-20		+50	°C
Non-operating Temperature*	-30		+60	°C
Relative humidity		95		%
Altitude	10000			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			

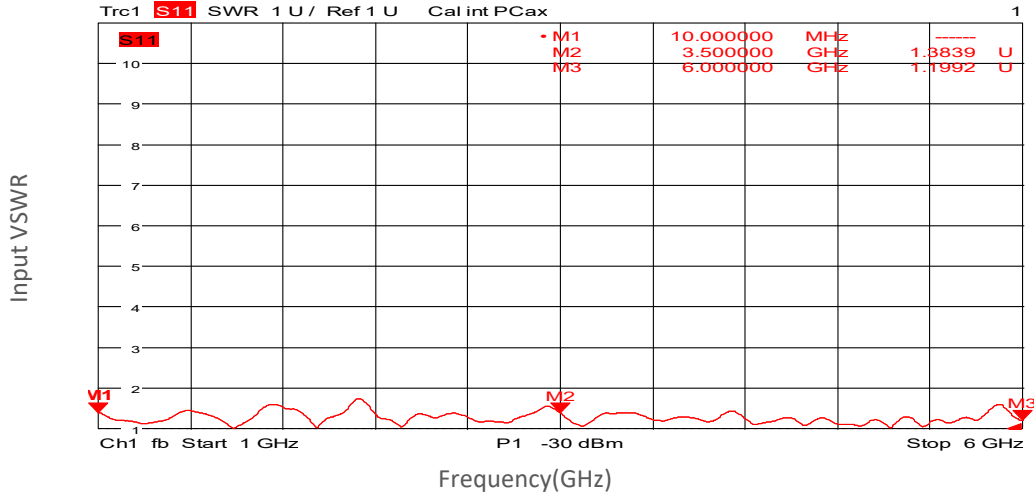
*Note: For a wider temperature range, please consult the manufacturer.

Ordering Information:

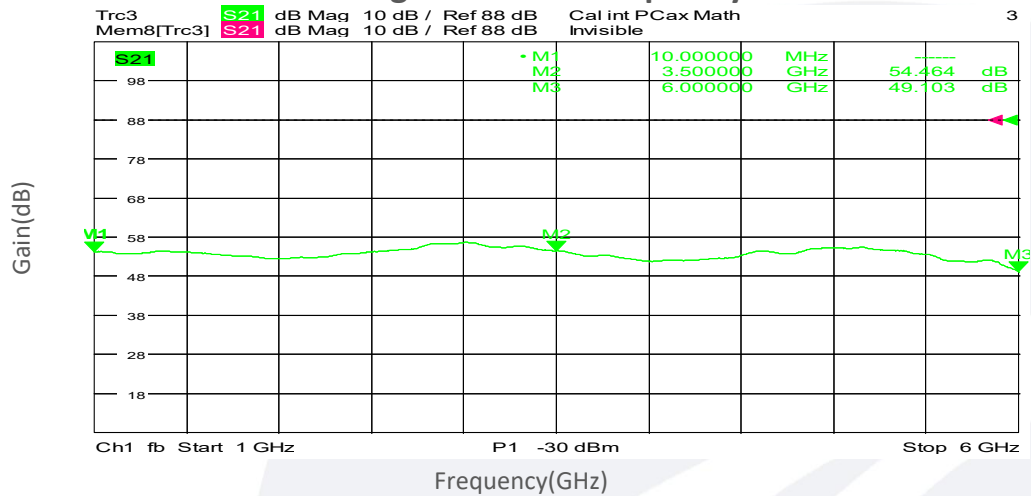
Part Number	Description	Revision
TLPA1G6G-45-45-BC	Solid State High Power Amplifier Systems 1-6GHz, Gain:45dB, Psat:45 dBm, 220V AC, Built in Fan Cooling	Rev.1.0

Typical Performance Data:

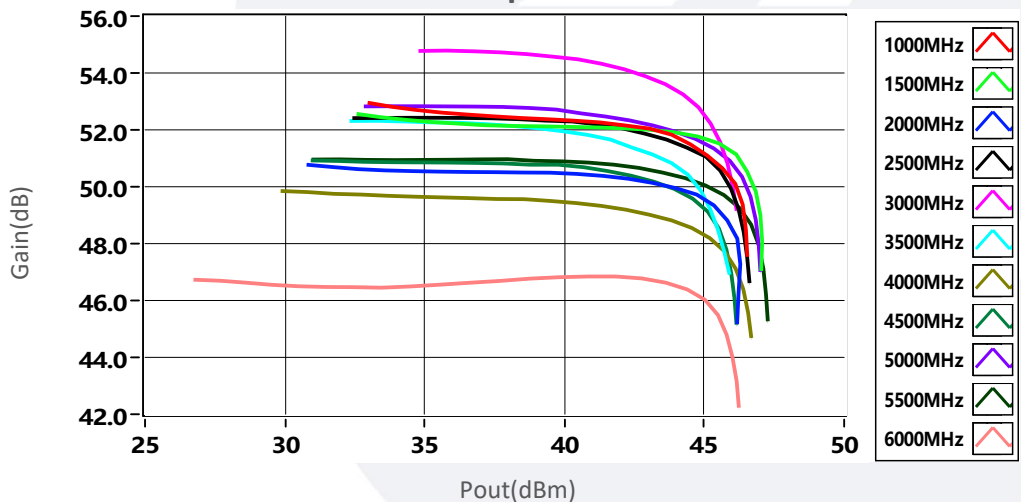
Input VSWR vs Frequency



Small Signal Gain vs Frequency



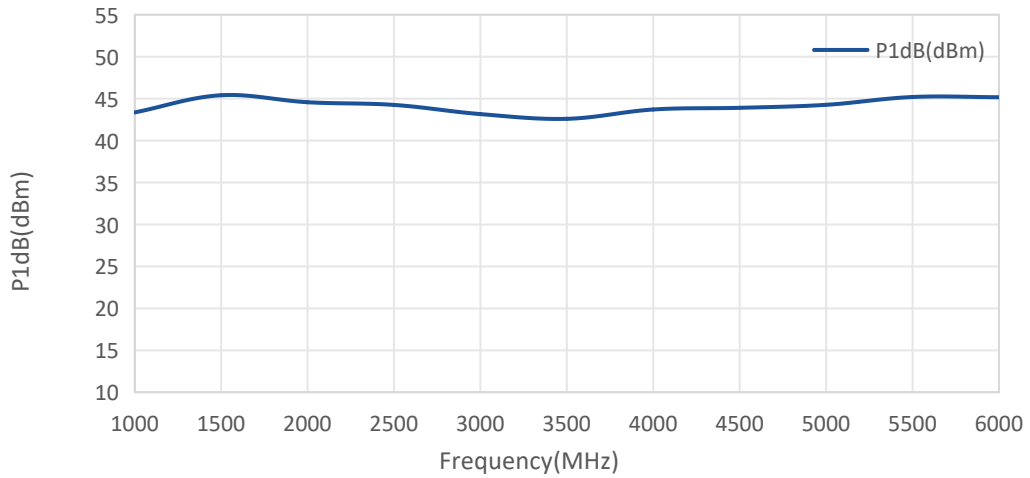
Gain vs Output Power



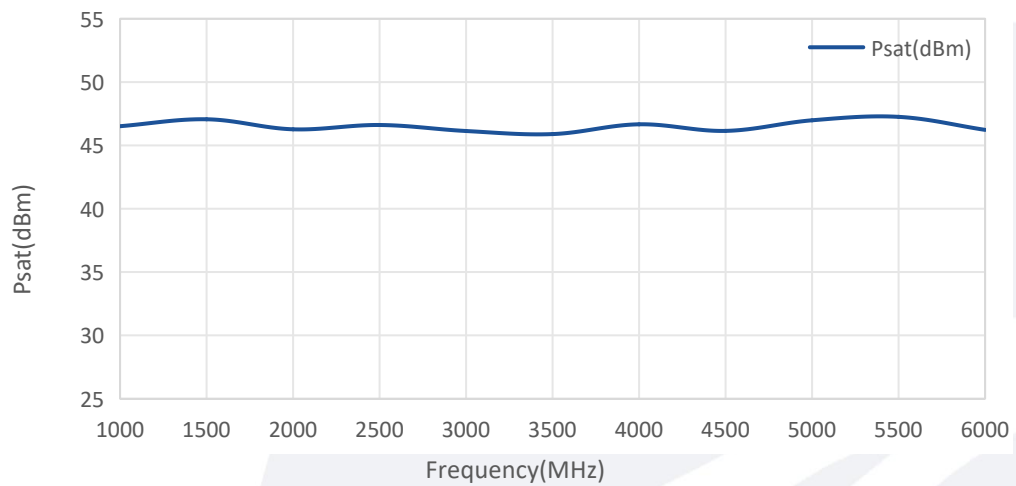
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

Typical Performance Data:

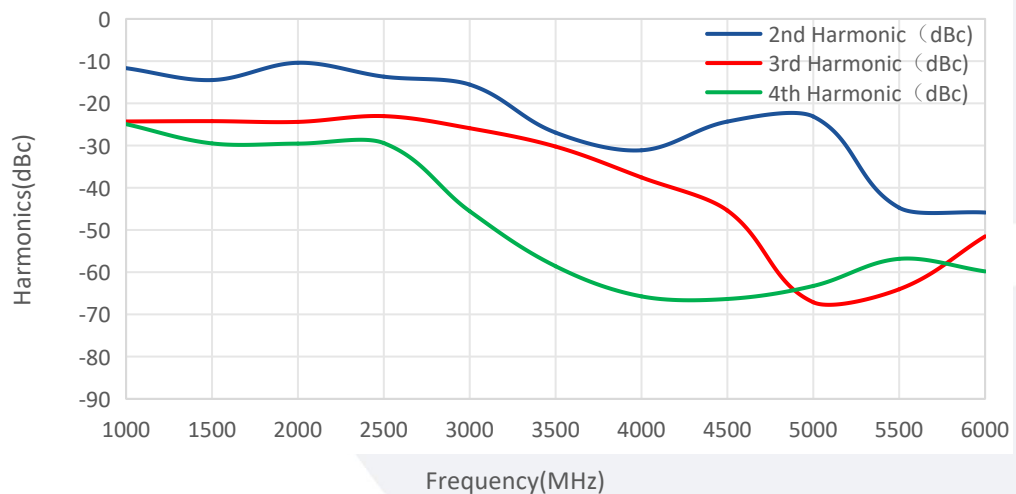
P1dB vs Frequency



Psat vs Frequency



Harmonics vs Frequency



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