

Model: TLPA0.7G6G-43-43-BC

Solid State High Power Amplifier Systems 0.7-6GHz, Gain: 43dB, Psat: 43dBm, 220V AC

Feature:

- Wide Band: 0.7-6GHz
- Gain: 43dB Min
- Psat Output Power: 43dBm Min
- Protection: Over TEM, over voltage, over current, over VSWR protection.
- 50 Ohm Matched Input / Output



Electrical Specifications:

Parameter	Symbo	Min	Typ	Max	Units
Frequency range	BW	0.7-6			GHz
Gain	GP	43	47		dB
Gain flatness	Δ GL		± 3	± 5	dB
Output Psat	Psat	43	44		dBm
Output P1dB	P1dB	40	41		dBm
Gain adujust range	Δ GR		30		dB
Spurious	Spur			-60	dBc
Harmonics	HAM			-10	dBc
Input VSWR	VSWRin		1.5	2.0	:1
AC Voltage	Vac	110	220		V AC
AC Supply Current	Iac	1.5A@220V AC			A
Impedance	I/O-IMP	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input/Output Connector	N Female/N Female	
Size	19 Inch 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



Key Features:



Parameter	Advantages
Control	RS422/Ethernet, LCD Screen Display
Protection functions	1, Over TEM 2, Over voltage 3, Over current protection 4, Over VSWR
Control functions	1, Power setting On/Off 2, ALC
Cooling system	Built in Cooling system, forced air cooling

Environmental Conditions:

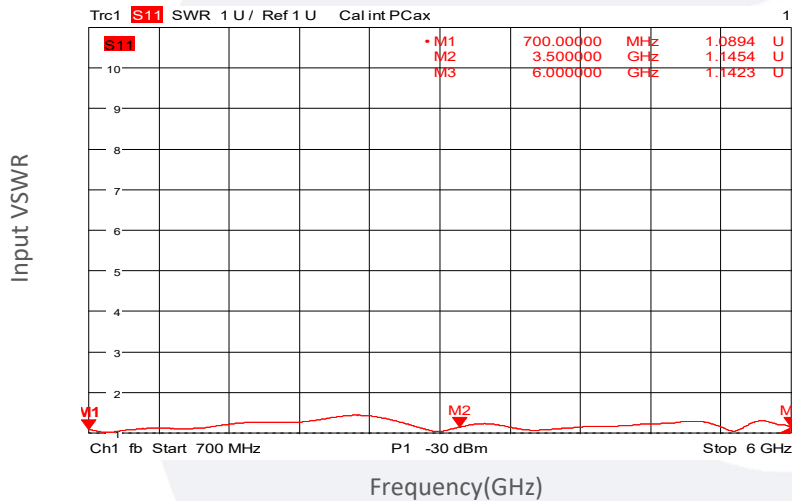
Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+50	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	30000			feet
Shock / Vibration(MIL-STD- 810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Part Number	Description	Revision
TLPA0.7G6G-43-43-BC	Solid State High Power Amplifier Systems 0.7-6GHz,Gain:43dB,Psat:43dBm,220V AC,Built in Fan Cooling	Rev.1.0

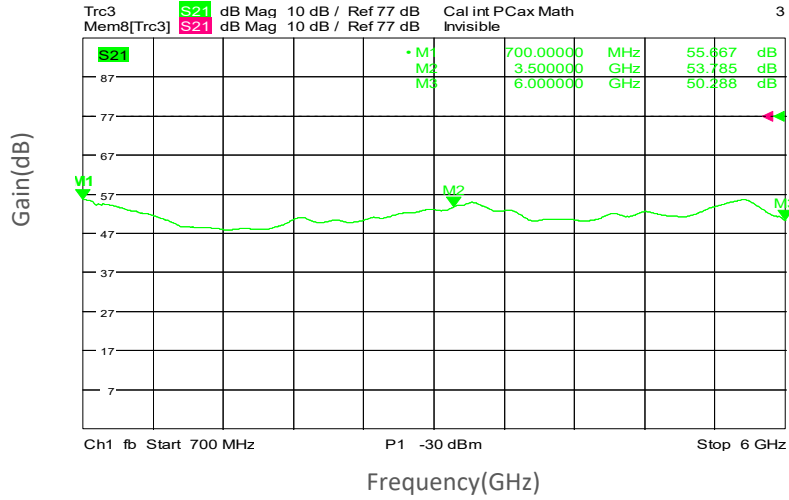
Typical Performance Data:

Input VSWR vs Frequency

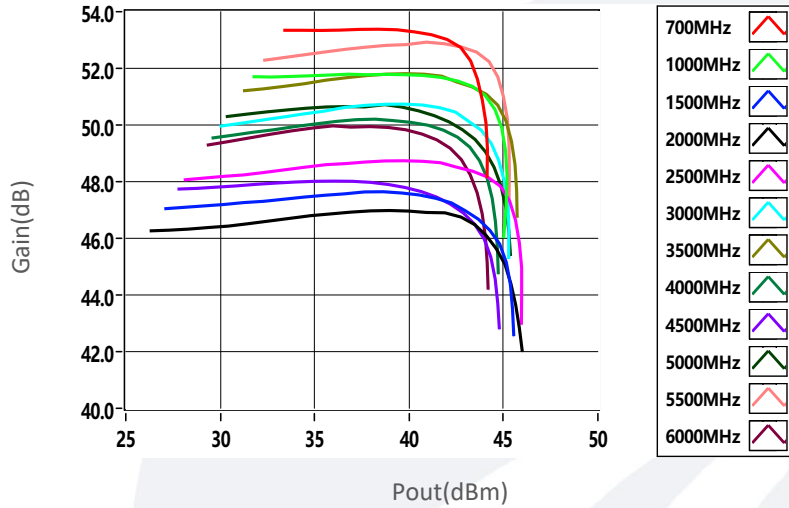


Typical Performance Data:

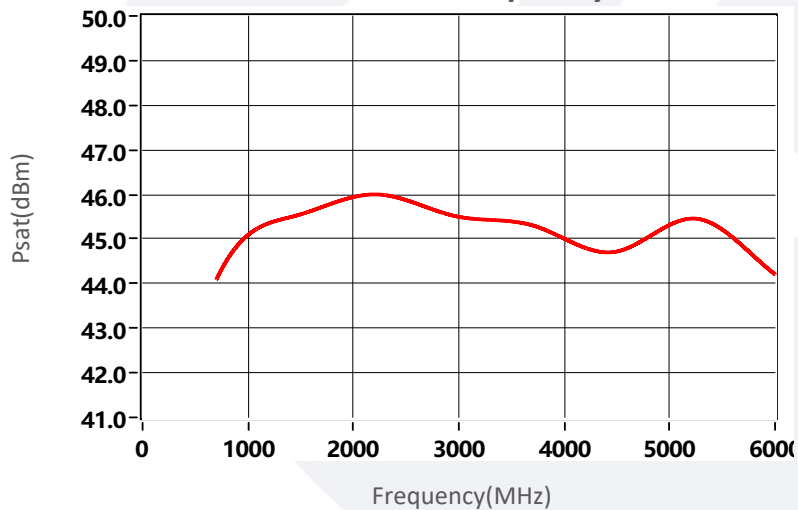
Gain vs Frequency



Gain vs Pout

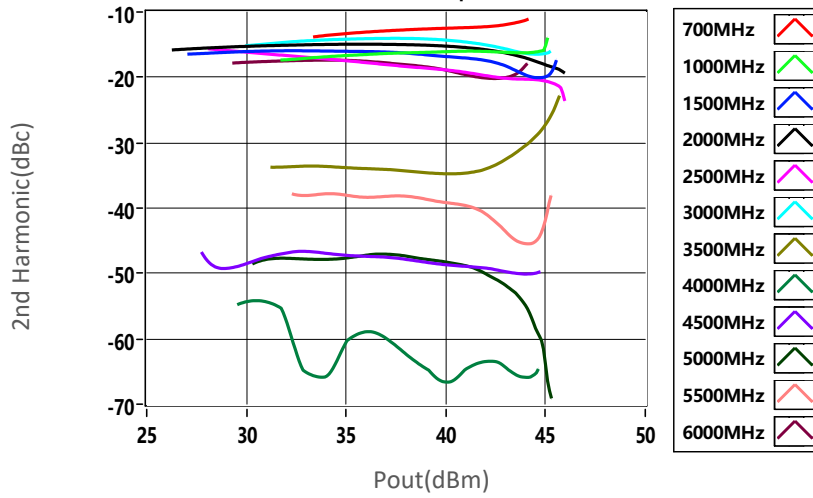


Psat VS Frequency



Typical Performance Data:

2nd Harmonic vs Output Power



3rd Harmonic vs Output Power

