

MODEL: LF05-S-51
Solid State High Power Amplifier Systems
0.5-6GHz, Gain: 51dB, Psat: 51 dBm, 220V AC

- Feature :
- Wide Band: 0.5-6GHz
 - Gain: 51dB Min
 - Psat Output Power:51dBm Min
 - Protection: Over TEM, over voltage, over current, over VSWR protection.
 - 50 Ohm Matched Input / Output

ELECTRICAL SPECIFICATION:

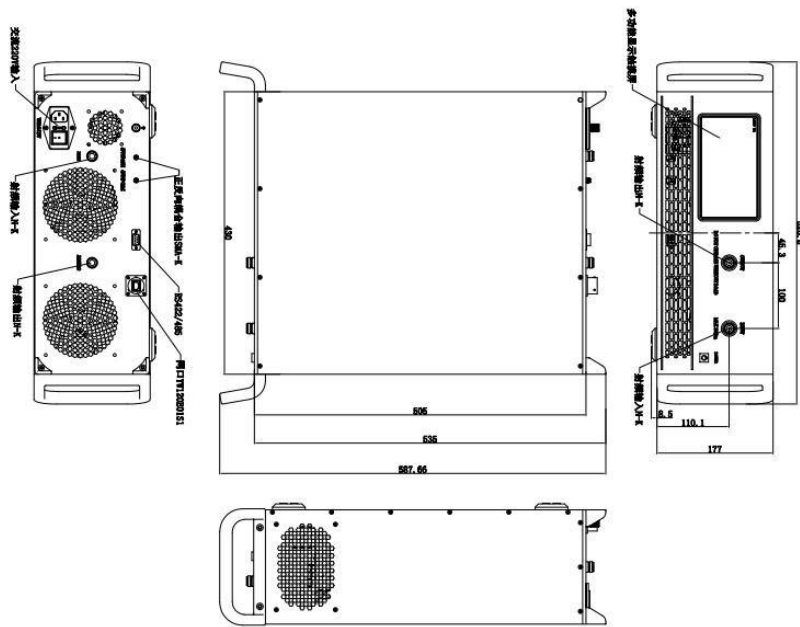
Parameter	Symbo	Min	Typ	Max	Units
Frequency range	BW	0.5-6			GHz
Gain	GP	51			dB
Gain flatness	ΔGL		±3.5		dB
Output Psat	Psat	51			dBm
Spurious	Spur			-60	dBc
Input VSWR	VSWRin			2.0	:1
AC Voltage	Vac	220			V AC
Power Consumption	Pdiss	1800@Max			W
Impedance	I/O-IMP	50			Ohms

MECHANICAL SPECIFICATION:

Parameter	Value	Units
Input /Output Connector	N Female/N Female	
Front Panel LCD Screen Display	7 inch LCD Screen Display	
Size	19 Inch 4U*550 depth	mm
Weight	35	Kg

OUTLINE DRAWING

Unit: mm





OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

KEY FEATURES:

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

ABSOLUTE MAXIMUM RATINGS:

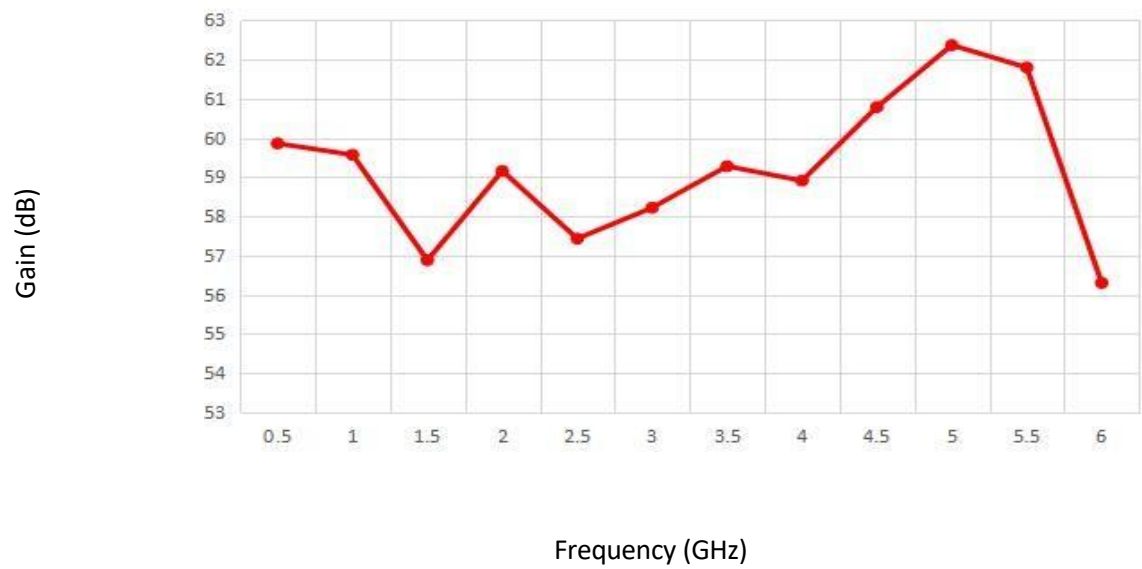
Parameter	Value
RF Input Power	10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

ENVIRONMENTAL CONDITIONS:

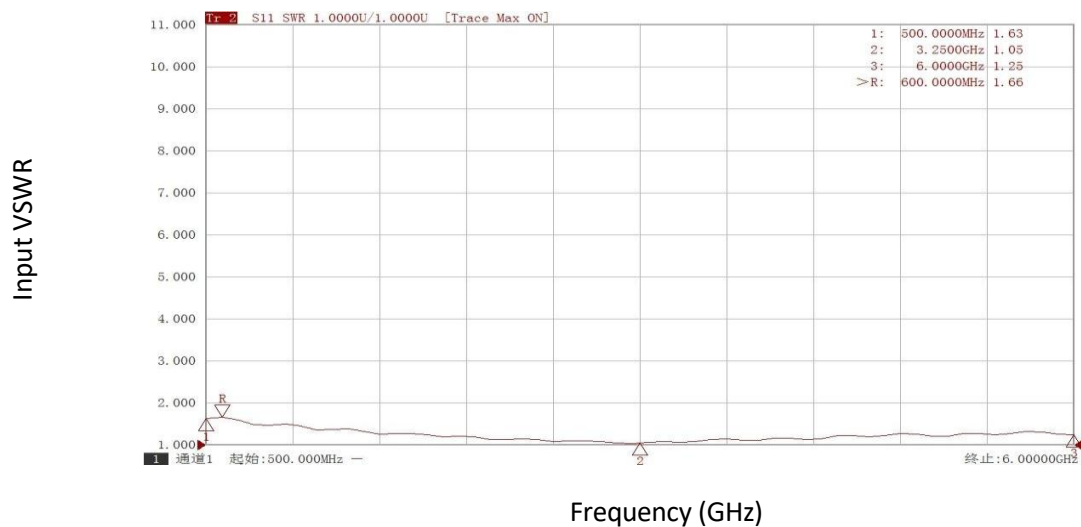
Parameter	Min	Typ	Max	Units
Operating Temperature	-20		+50	°C
Non-operating Temperature	-45		+65	°C
Relative humidity		95		%
Altitude	50000			feet
Shock / Vibration(MIL-STD- 810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

TYPICAL PERFORMANCE DATA:

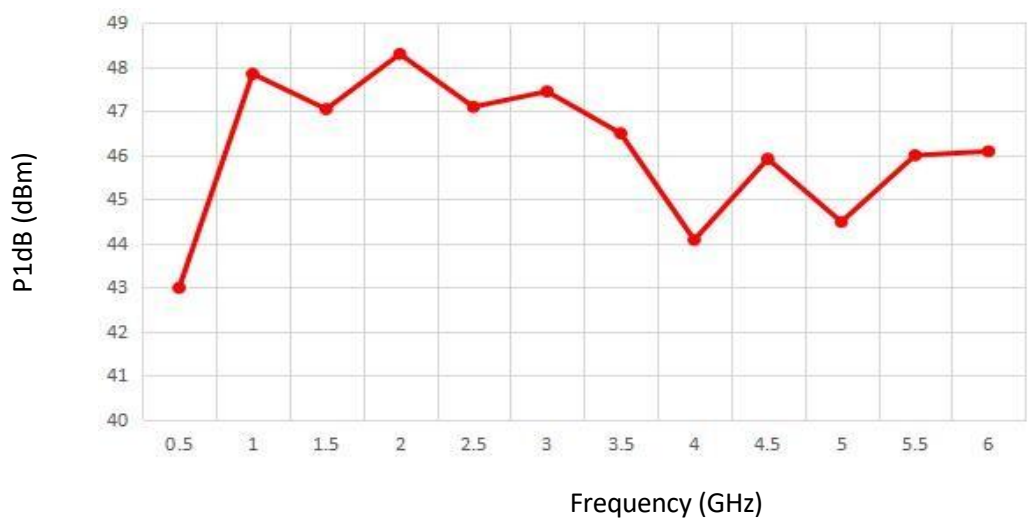
Small Signal Gain vs Frequency



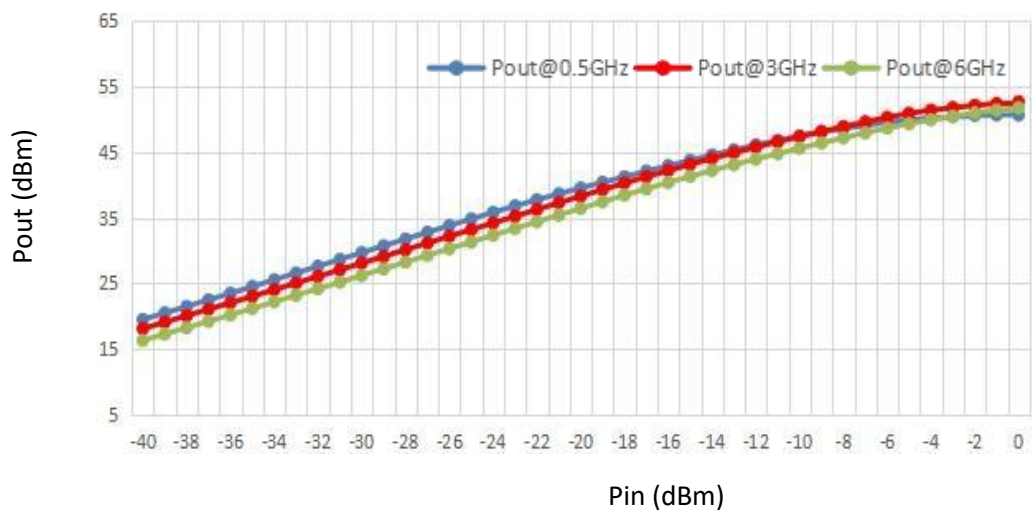
Input VSWR vs Frequency



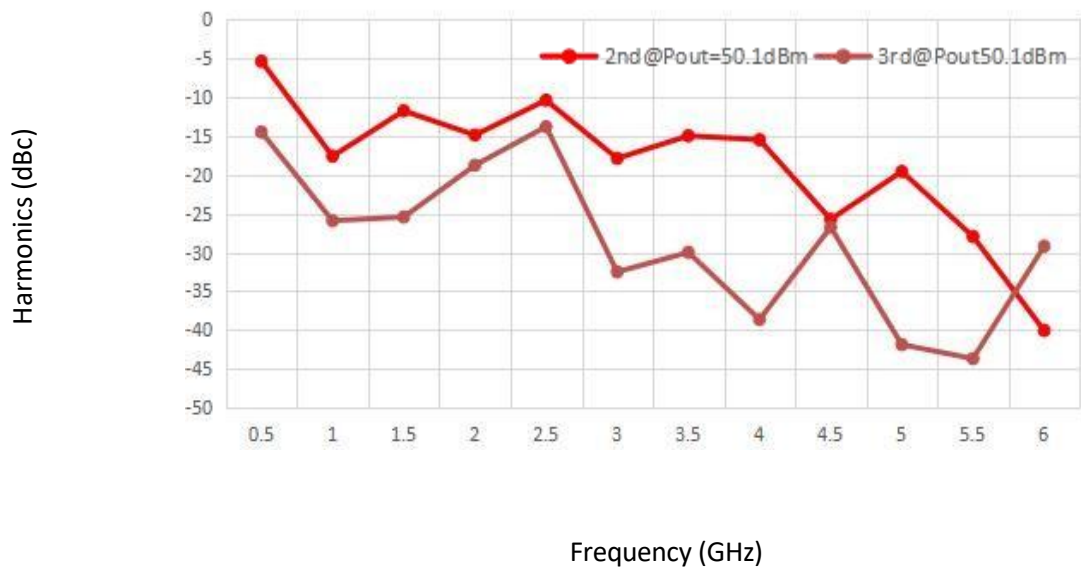
P1dB vs Frequency



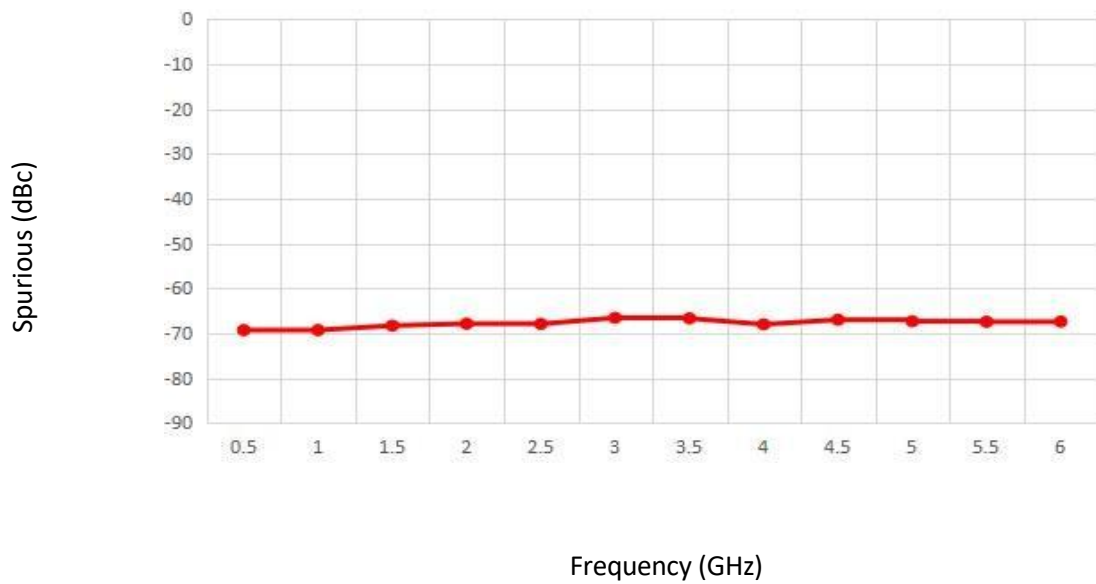
Pout@Pin



Harmonics vs Frequency



Spurious vs Frequency



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.

ORDERING INFORMATION:

Part Number	Description	Revision
<u>LF05-S-51</u>	Solid State High Power Amplifier Systems 0.5- 6GHz, Gain:51dB, Psat:51 dBm, 220V AC, Built in Fan Cooling	Rev.1.0