

Solid State High Power Amplifier Systems

7-11GHz /57dB Gain/57 dBm Psat/380V AC

Model: TLPA7G11G-57-57-BC

TLPA7G11G-57-57-BC is a solid state high power amplifier systems provides high output power and high gain across the 7 to 11 GHz frequency range. The amplifier features a built-in 380V power supply, making it easy to use in most lab environments. This model features thermal self protection, preventing damage to the amplifier and providing added reliability.

Features:

- Wide Band: 7-11GHz
- Gain: 57dB Min
- Psat Output Power:57dBm Min
- Protection:Over TEM,over voltage, over current ,over VSWR protection
- 50 Ohm Matched Input / Output

Electrical Characteristics:

Parameter	Symbol	Min	Typ	Max	Units
Frequency range	BW	7-11			GHz
Gain	GP	57			dB
Gain flatness	Δ GL		± 4.5		dB
Output Psat	Psat	57			dBm
Spurious@Pout=57dBm	Spur			-60	dBc
Harmonics@Pout=57dBm	HAM			-40	dBc
Input VSWR	VSWRin			2.0	:1
AC Voltage	Vac		380		V AC
Power Consumption	Pdiss	5500@Max			W
Impedance	I/O-IMP	50			Ohms

Mechanical Specifications:

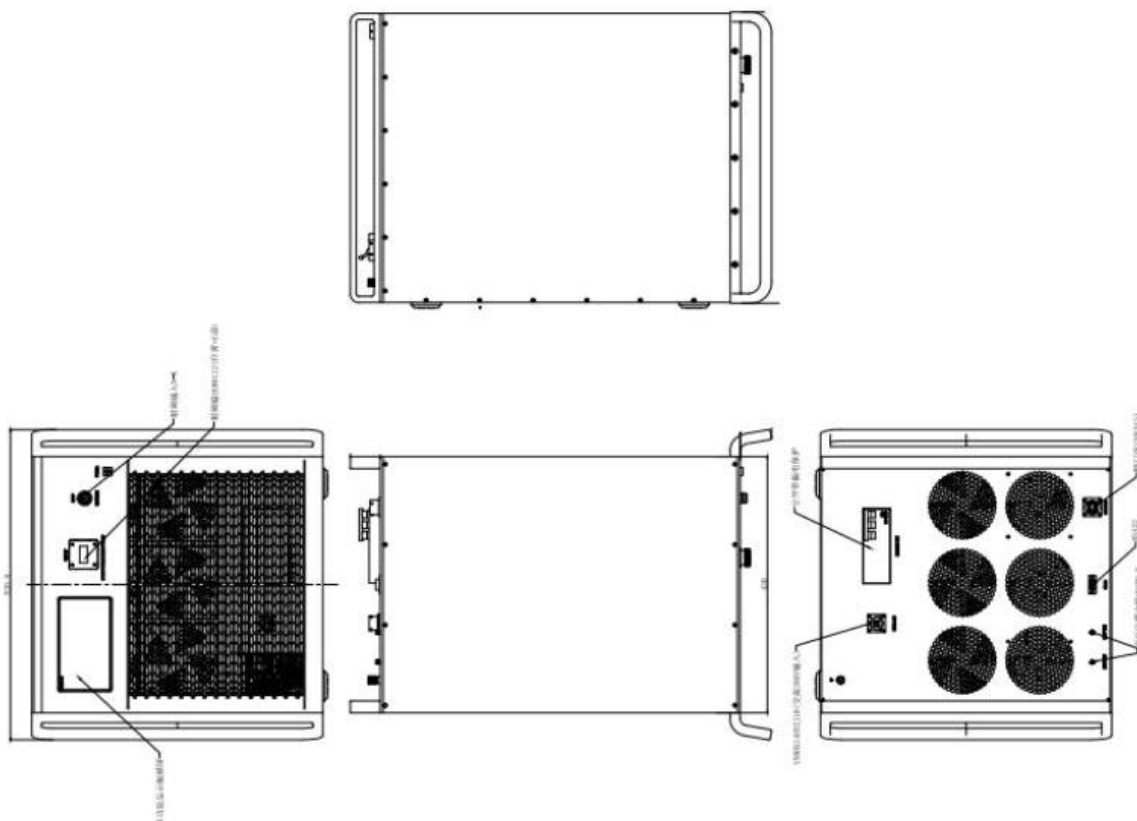
Parameter	Value	Units
Input /Output Connector	N Female/WR-112	
Forward/Reversion Coupling	SMA Female/SMA Female	
Communication Connector	DB9/RJ45	
Front Panel LCD Screen Display	7 inch LCD Screen Display	
Size	19inch 11U	
Weight	≤90	Kg

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 functions	Power setting On/Off 2, RF control
Protection functions	1, Over TEM 2, Over voltage 3, Over current protection 4, Over VSWR
Control	RS422/Ethernet
Cooling system	Built in Cooling system, forced air cooling

Environmental Conditions:

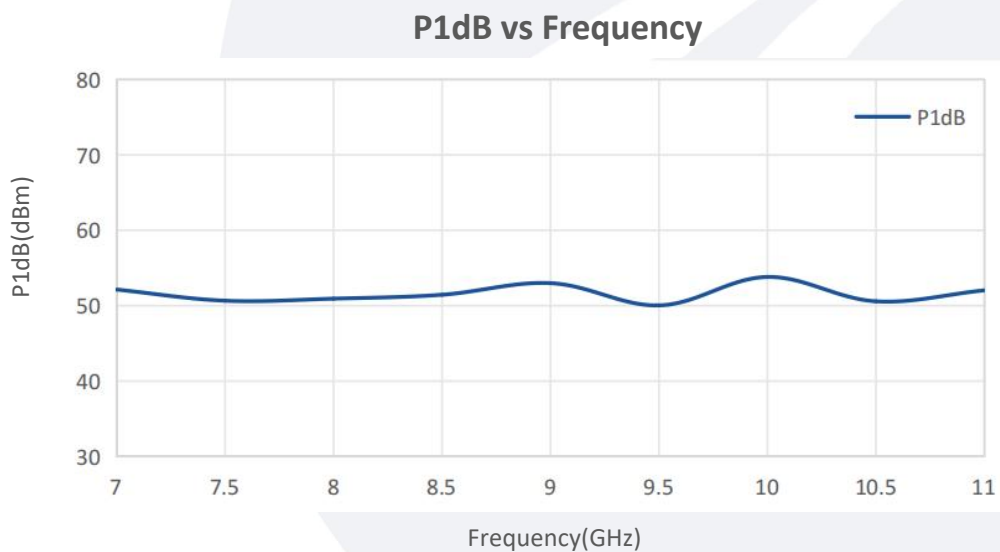
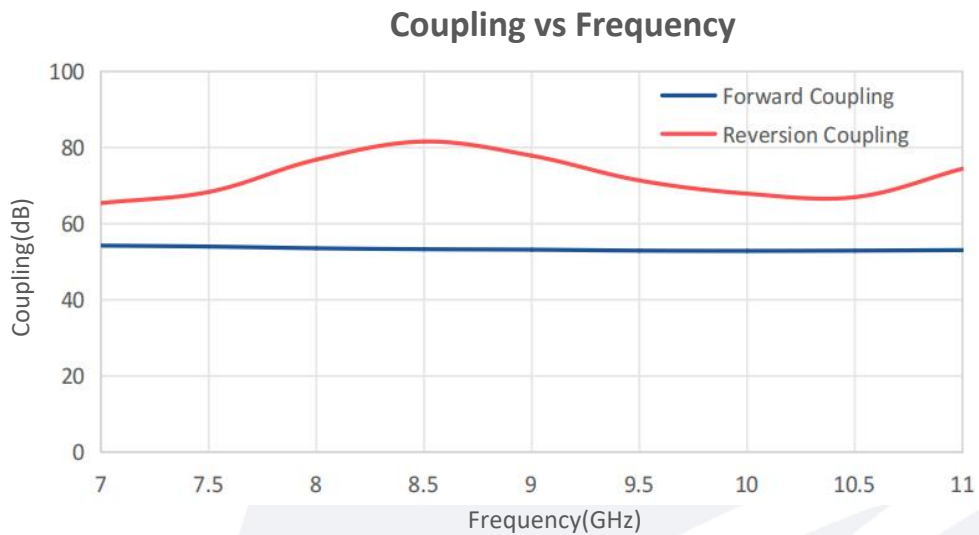
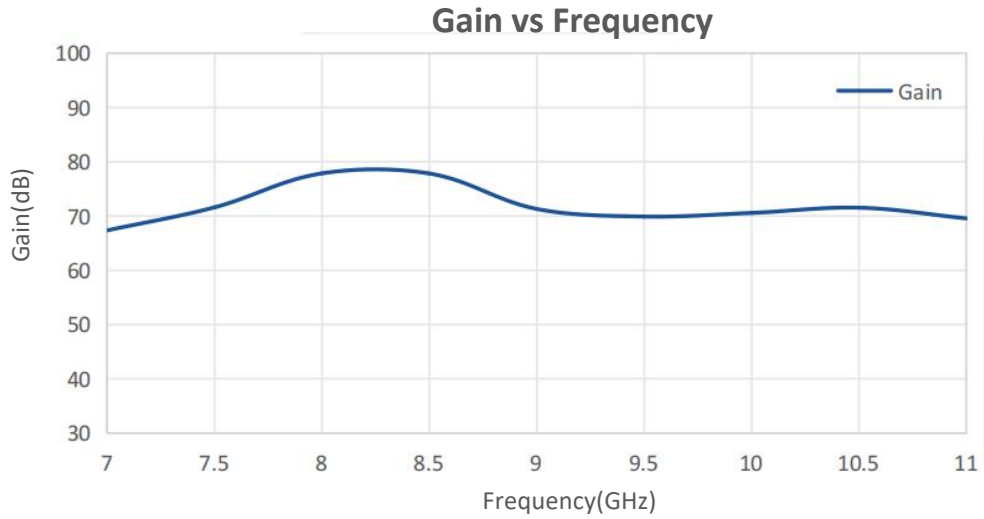
Parameter	Min	Typ	Max	Units
Operating Temperature*	0		+40	°C
Non-operating Temperature*	-20		+55	°C
Relative humidity		95		%
Altitude	10,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave, 3 axis both directions			

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

Ordering Information:

Base Number	Description	Revision
TLPA7G11G-57-57-BC	Solid State High Power Amplifier Systems 7-11GHz, Gain: 57dB, Psat: 57 dBm, 380V AC, Built in Fan Cooling	Rev.1.0

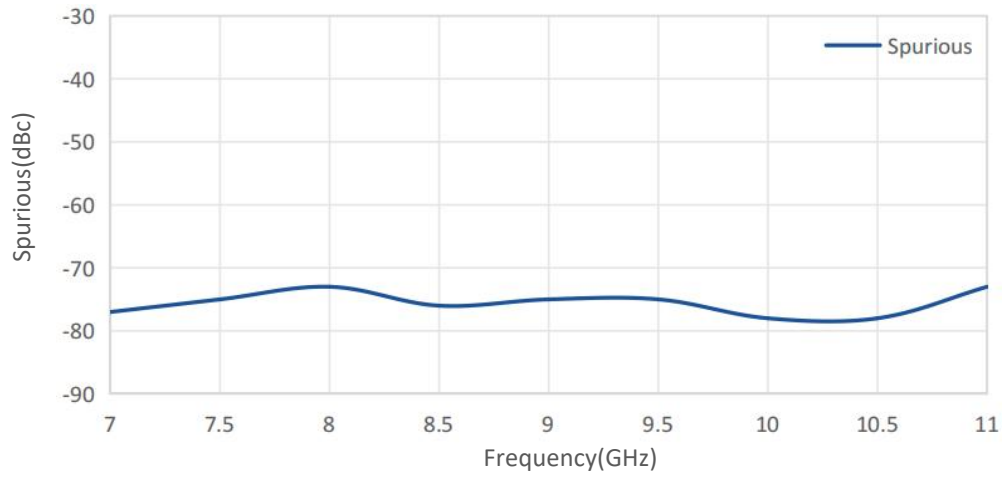
Typical Performance Data:



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.

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Spurious@Pout=57dBm



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