

Model:TLPA2.7G3.5G-25-53
Power Amplifier
2.7-3.5GHz,Gain:25dB,Psat:53dBm
Feature:

- Ultra Wide Band: 2.7-3.5GHz
- Gain: 25 dB Typ
- Psat Output Power: 53 dBm Min
- Protection:Over TEM,over voltage, over current.
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	2.7-3.5			GHz
Power Gain	20	25		dB
Gain Flatness		±3	±4	dB
Output P1dB		50		dBm
Output Psat	53	54		dBm
Harmonic Suppression @Pout=53dBm			-20	dBc
Input VSWR		1.5	2.0	:1
DC Voltage	26	28	30	V DC
DC Supply Current		25	30	A
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/N Female	
DC Bias	Four core avionics	
Size	330*310*120	mm
Weight	20	Kg

Absolute Maximum Ratings:

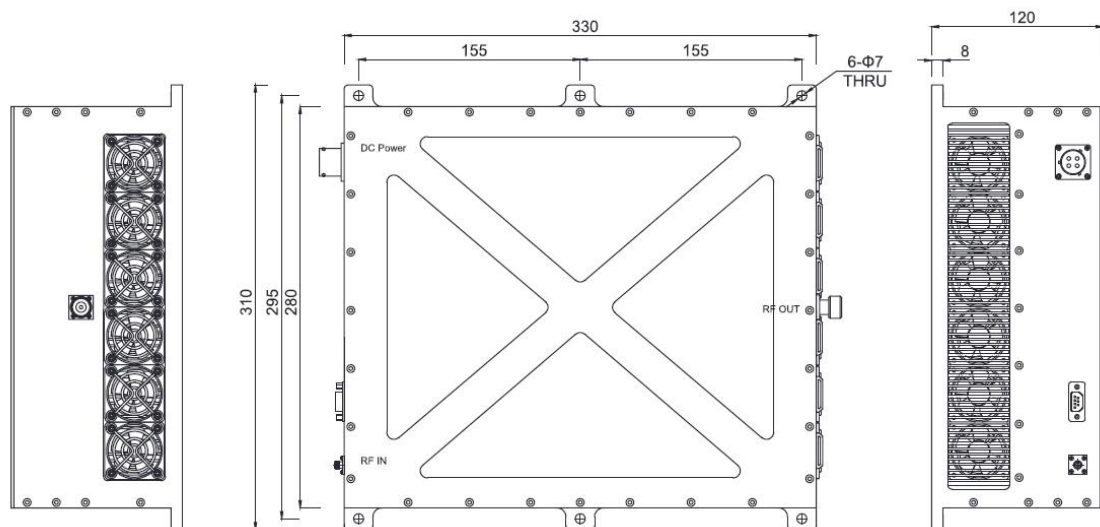
Parameter	Value
Supply Bias Voltage	+30 V
RF Input Power	+37 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



**Available 220V System
Benchtop Amplifier**

Outline Drawing:

Unit: mm



Key Features:



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Parameter	Specification
Over Temp Protection	85°C Max(Case)
Over Voltage Protection	32V Max
Over Current Protection	35A Max
Forward /Reverse Power Sense(analog Voltage)	36 mV/dB
Current Sense(analog Voltage)	0.1V/A
Temp Sense (analog Voltage)	$VO = 10 \text{ mV}/^{\circ}\text{C} \times T^{\circ}\text{C} + 600 \text{ mV}$

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	-20		+50	°C
Non-operating Temperature*	-30		+60	°C
Relative humidity		95		%
Altitude	10,000			feet
Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth			
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
TLPA2.7G3.5G-25-53	Power amplifier 2.7-3.5GHz,Gain:25dB,Psat:53dBm, +28V DC,Without Heatsink	Rev.1.1