

Model:TLPA8G12G-47-46
Power Amplifier
8-12GHz,Gain:47dB,Psat:46dBm
Feature:

- Ultra Wide Band:8-12GHz
- Gain:47dB Min
- Psat Output Power: 46dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	8-12			GHz
Gain	47			dB
Gain Flatness		±2		dB
Output Psat	46			dBm
Spurious@Pout=46dBm			-60	dBc
Harmonics@Pout=46dBm		-25		dBc
Input VSWR			2.0	:1
DC Voltage	+26	+28	+30	V DC
DC Supply Current			9.3	A
Impedance	50			Ohms

Mechanical Specifications:

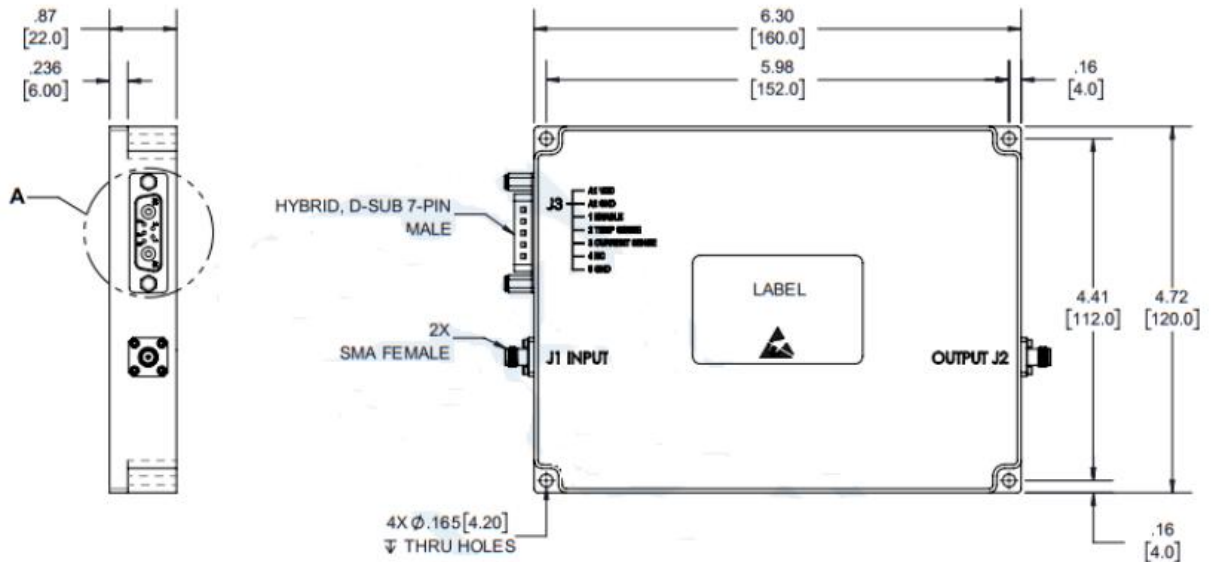
Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	/	mm
Weight	2	Kg

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+30V
RF Input Power	10dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit: Inch



*****Heat Sink Required During Operation**



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

SUB-2W2 Define	
Pin	Function
A1	+28V
A2	GND
Pin1	Enable
Pin2	Temperature Sensor
Pin3	Current Sensor
Pin4	NC
Pin5	GND

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	30,000			feet
Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Part Number	Description	Revision
TLPA8G12G-47-46	Power amplifier 8-12GHz,Gain:47dB,Psat:46dBm, +28V DC,Without Heatsink	Rev.1.1
TLPA8G12G-47-46-HS	Power amplifier 8-12GHz,Gain:47dB,Psat:46dBm, +28V DC,With Heatsink	Rev.1.1