

**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

**电气特性 Electrical Specifications:**

参数Parameter	Min	Typ	Max	单位Units
频率范围 Frequency range	8-12			GHz
增益 Gain	47			dB
增益平坦度 Gain Flatness		±2		dB
饱和输出功率 Output Psat	46			dBm
杂散 Spurious@Pout=46dBm			-60	dBc
谐波 Harmonics@Pout=46dBm		-25		dBc
输入驻波 Input VSWR			2.0	:1
直流电压 DC Voltage	+26	+28	+30	V DC
直流电流 DC Supply Current			9.3	A
阻抗 Impedance	50			Ohms

**机械特性 Mechanical Specifications:**

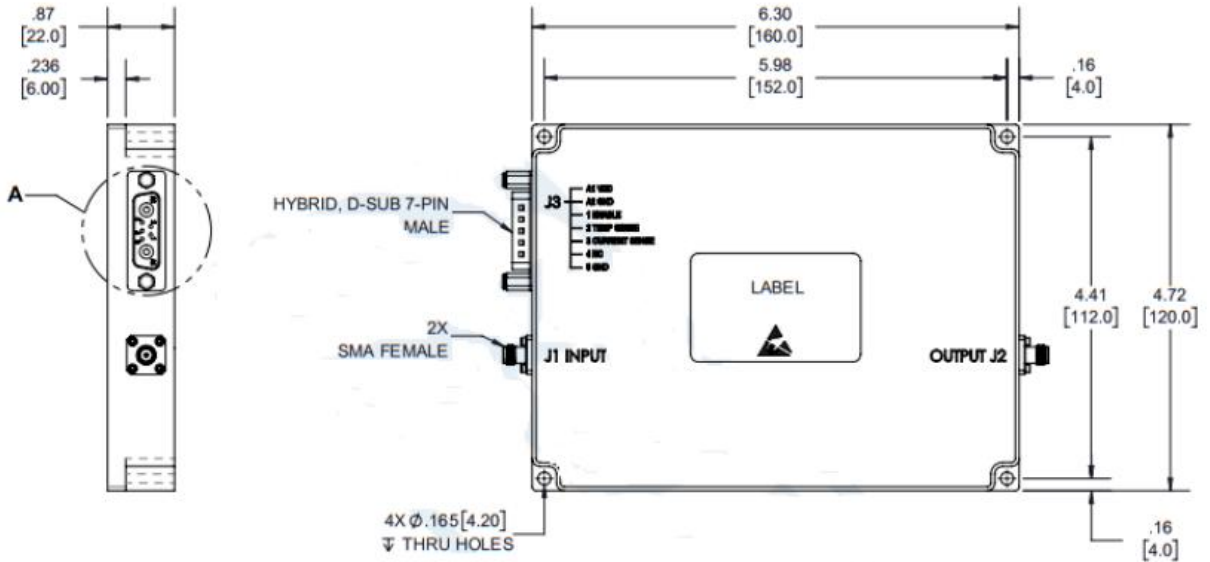
参数Parameter	指标 Value	单位Units
输入/输出接口 Input /Output Connector	SMA Female/SMA Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	/	mm
重量 Weight	2	Kg

**绝对最大值 Absolute Maximum Ratings:**

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+30V
输入功率 RF Input Power	10dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸Outline Drawing:

Unit: Inch



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



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

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

**温度环境 Environmental Conditions:**

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

**订货信息 Ordering Information:**

标准型号 Part Number	描述 Description	版本号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