

Model: TLP A8G12G-47-46
Power Amplifier
8GHz-12GHz, Gain: 47dB, Psat: 46dBm
Feature:

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

电气特性 Electrical:

参数Parameter	Min.	Typ.	Max.	单位Units
频率范围 Frequency range	8-12			GHz
工作体制 Operation mode	CW/PULSE			
功率增益 Gain	47			dB
增益平坦度 Gain Flatness		±2dB		dB
饱和输出功率 Psat	46			dBm
输入功率 Input Power		0	10	dBm
谐波抑制 Harmonic@Pout=46dBm		25		dBc
杂散抑制 Suprious@Pout=46dBm	60			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 :

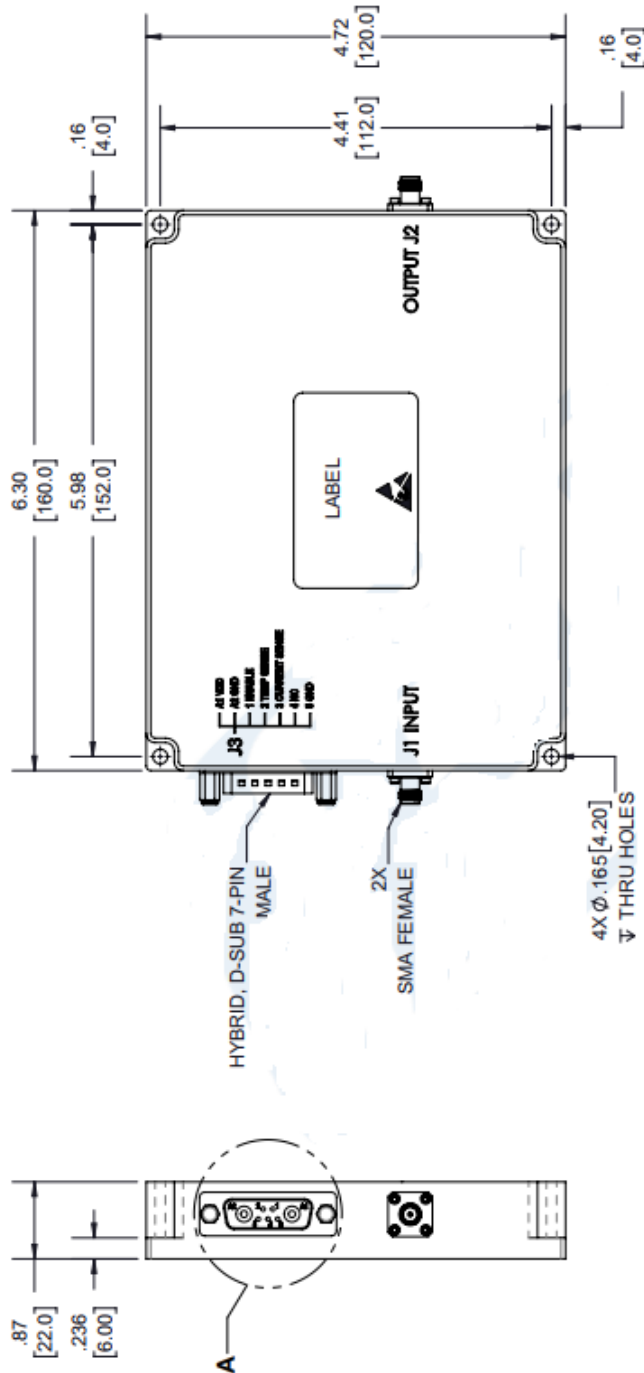
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	SMA Female	
直流偏置 Bias	Solder Pin	
尺寸 Size		mm
重量 Weight	2000	g


绝对最大值 Absolute Maximum Ratings:

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

外形尺寸 Outline Drawing:

Unit: mm/inch



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

接口定义 Interface Definition:

Port	Connector	Function	
J1	SMA-K	Input	
J2	SMA-K	Output	
J3	DSUB-7W2	Power	A1: +28V A2: GND PIN1:ENABLE PIN2:TEMP 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)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
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 8Hz-12GHz,Gain:47dB,Psat:46dBm,28V DC, Without Heatsink	Rev.1.0
TLPA8G12G-47-46-HS	Power amplifier 8Hz-12GHz,Gain:47dB,Psat:46dBm,28V DC, With Heatsink	Rev.1.0