

**Model: TLPA0.1G6G-40-40-BC**
**Solid State High Power Amplifier Systems  
 0.1GHz-6GHz, Gain: 40dB, Psat: 40dBm**
**Feature:**

- Ultra Wide Band: 0.1GHz-6GHz
- Gain: 40dB Min
- Psat Output Power: 40 dBm Typ
- Protection: Over TEM, over voltage, over current.
- 50 Ohm Matched Input / Output

**电气特性 Electrical Specifications:**

参数Parameter	代码 Symbo	Min	Typ	Max	单位Units
频率范围 Frequency range	BW	0.1-6			GHz
增益 Gain	GP	40	45		dB
增益平坦度 Gain Flatness	$\Delta$ GL		$\pm 3$	$\pm 5$	dB
线性输出功率 Output P1dB	P1dB	33	34		dBm
饱和输出功率 Output Psat	Psat	39	40		dBm
谐波抑制 Harmonics	HAM		-10		dBc
输入驻波 Input VSWR	VSWRin		1.5	2.0	:1
交流电压 AC Voltage	Vac	110	220		V AC
交流功耗 AC Input Power	Pdiss		50	100	Watts
阻抗 Impedance	I/O-IMP	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	
尺寸 Size	274*214*94	mm
重量 Weight	5	kg

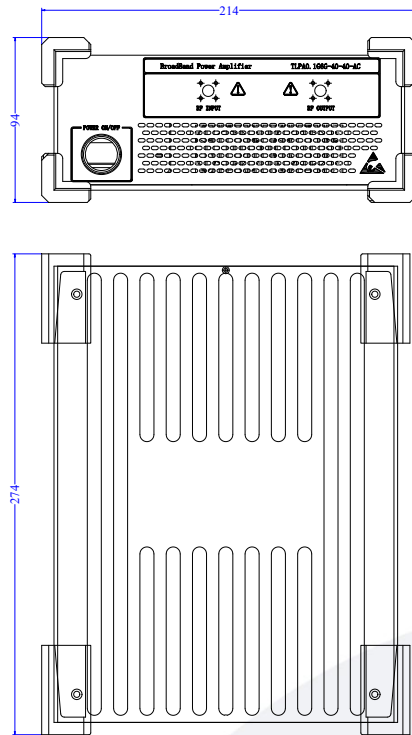

 Available 220V System  
 Benchtop Amplifier

**绝对最大值 Absolute Maximum Ratings:**

参数Parameter	指标 Value
输入功率 RF Input Power	5 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸 Outline Drawing:

Unit: mm



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

主要功能 Key Features:

参数 Parameter	特点 Advantages
控制功能 Control functions	1, Power setting On/Off
内置保护功能 Protection functions	1, Over TEM 2, Over voltage 3, Over current protection
冷却系统 Cooling system	Built in Cooling system, forced air cooling

**温度环境 Environmental Conditions:**

参数Parameter	Min	Typ	Max	单位Units
操作温度 Operating Temperature	-20		+50	°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
TLPA0.1G6G-40-40-BC	Solid State High Power Amplifier Systems 0.1-6GHz,Gain:40dB,Psat:40 dBm,220V AC,Built in Fan Cooling	Rev.1.0