

Model:TLPA0.1M400M-53-53-BC
**Solid State High Power Amplifier Systems
 0.1-400MHz,Gain:53dB,Psat:200W,220V AC**
Feature:

- Wide Band: 0.1-400 MHz
- Gain: 53dB Min
- Psat Output Power:200W Min
- Protection:Over TEM,over voltage, over current ,over VSWR protection.
- 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	0.1-400			MHz
功率增益 Power Gain	GP	53			dB
增益平坦度 Gain flatness	Δ GL			± 3.5	dB
饱和输出功率 Output Psat	Psat	200			W
线性输出功率 Output P1dB	P1dB	150			W
杂散 Spurious	Spur			-50	dBc
谐波 Harmonics	HAM			-15	dBc
输入驻波 Input VSWR	VSWRin			2.0	:1
交流电压 AC Voltage	Vac	220 \times (1 \pm 10%)			V AC
阻抗 Impedance	I/O-IMP		50		Ohms
输入电源功率 Input DC Power		$\leq 800W$			A
驻波报警 Over VSWR		5			:1
激励报警 Over Excited		> 200			W
温度报警 Over Temperature		60			$^{\circ}C$

机械特性 Mechanical Specifications:

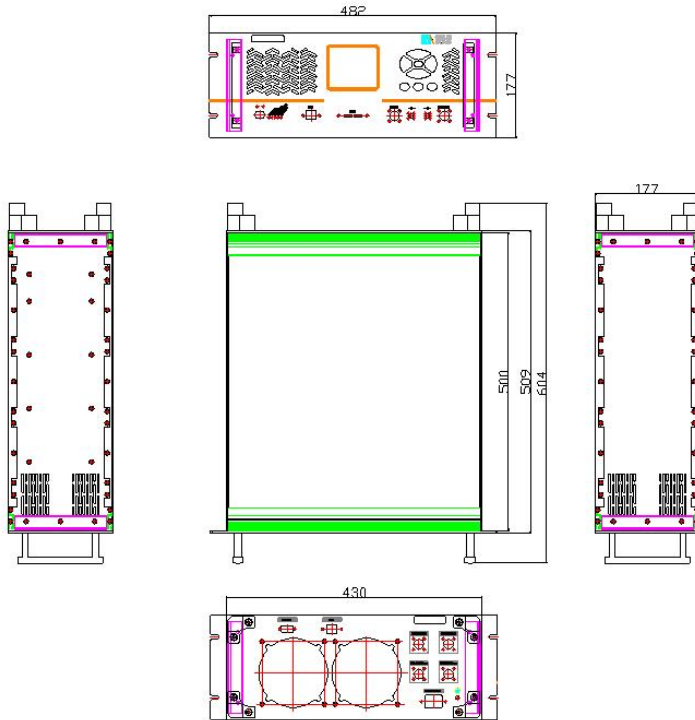
参数 Parameter	指标 Value	单位Units
输入/输出接口 Input /Output Connector	N Female/N Female	
耦合接口 Coupling Connector	N Female	
控制接口 Control Connector	GPIB/Ethernet	
尺寸 Size	19 Inch 4U	mm
重量 Weight	≤ 25	Kg

绝对最大值 Absolute Maximum Ratings:

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

外形尺寸 Outline Drawing:

Unit: mm



主要功能 Key Features:

参数 Parameter	特点 Advantages
控制功能 Control functions	1, Power setting On/Off 2, Gain adjust (Additional fees are required)
内置保护功能 Protection functions	1, Over TEM 2, Over voltage 3, Over current 4, Over VSWR 5, Open/close circuit
监控和控制 Remote control	GPIB/Ethernet
显示功能 Display functions	Real-time condition display (Additional fees are required)
冷却系统 Cooling system	Built in Cooling system, forced air cooling

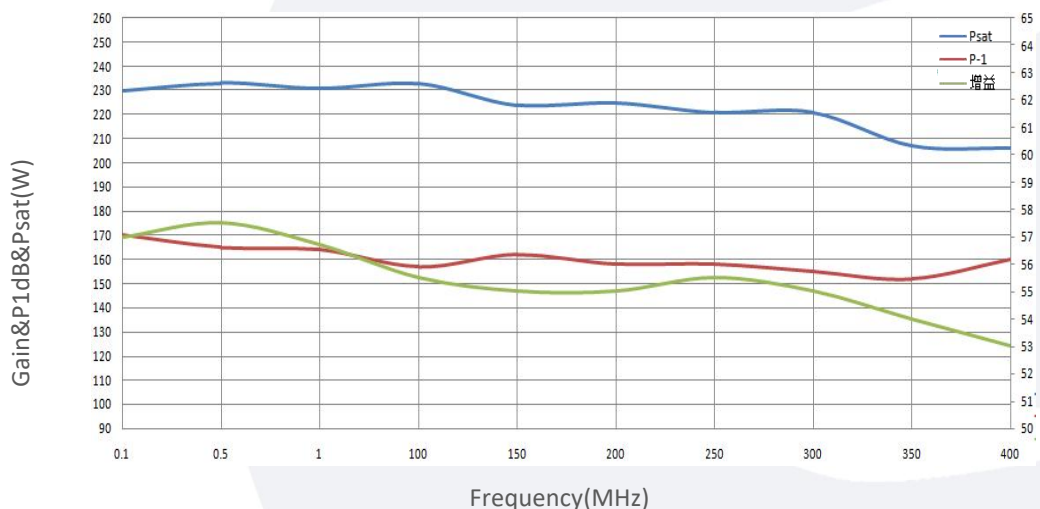
温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature*	0		40	°C
存储温度 Non-operating Temperature*	-15		65	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	10000			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			

*Note: For a wider temperature range, please consult the manufacturer.

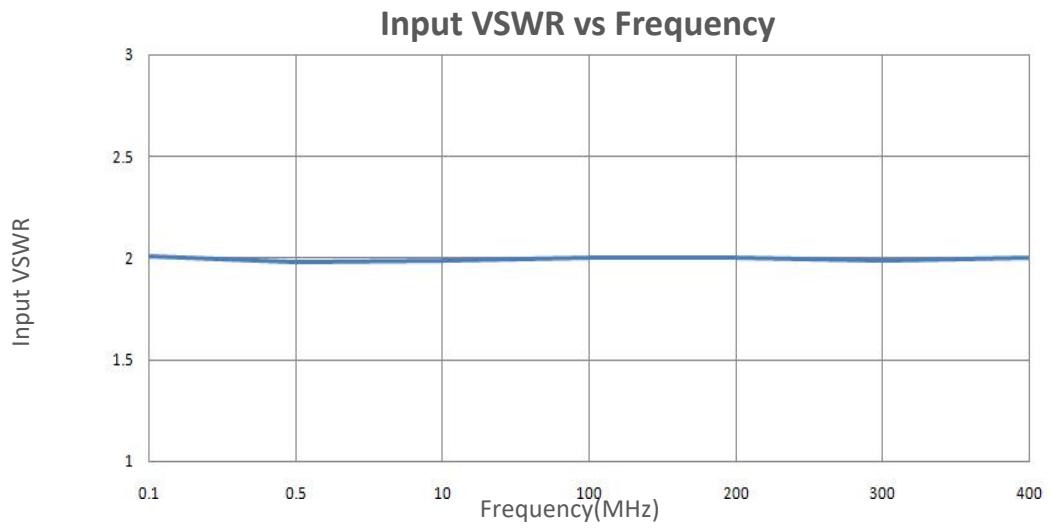
订货信息 Ordering Information:

标准型号 Part Number	描述 Description	版本号 Revision
TLPA0.1M400M-53-53-BC	Solid State High Power Amplifier Systems 0.1-400MHz,Gain:53dB,Psat:200W,220V AC,Built in Fan Cooling	Rev.1.0

典型曲线 Typical Performance Data:
Gain&P1dB&Psat vs Frequency


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

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