

Model:TLPA3M30M-45-45-HS

Power Amplifier

3MHz-30MHz,Gain:50dB,Psat:45dBm

Feature:

- Ultra Wide Band: 3MHz-30MHz
- Gain: 50dB Typ
- Psat Output Power: 45 dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min.	Typ.	Max.	Units
Frequency range	3-30			MHz
Gain	48	50		dB
Gain Flatness		± 1 dB	± 2 dB	dB
Gain Adjustment Range (7-bit, 0.25dB step)			31.75	dB
Output P1dB	43	44		dBm
Output Psat	45	46		dBm
Input VSWR		1.5	2.0	:1
DC Voltage		28		V DC
DC Supply Current	5			A
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female	
Bias	穿心电容	
Control Ports	J30J-9	
Size	180X129X63.5	mm
Weight	2600	g



Available 220V System
Benchtop Amplifier

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	30
RF INPUT POWER	0 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

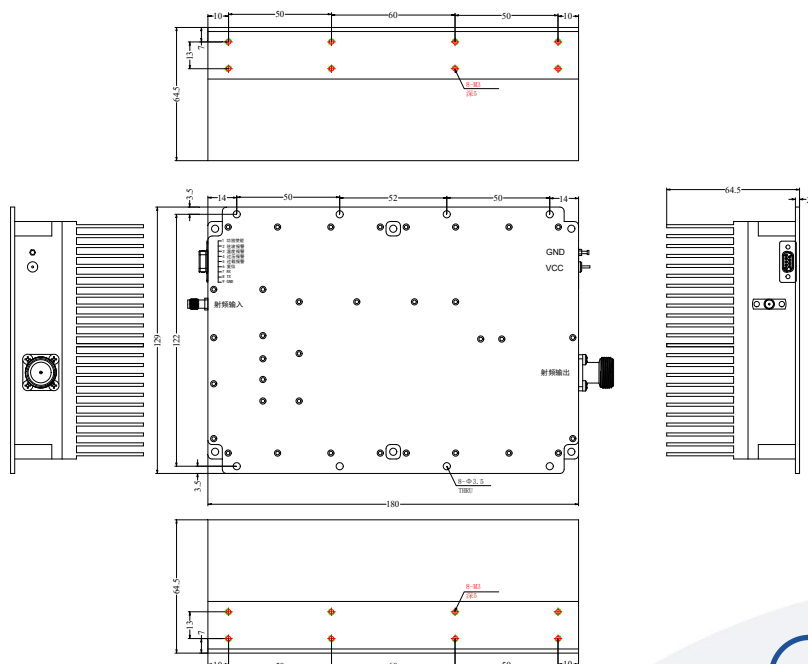
控制接口连接器 J30J, 9-Pin, Female

引脚编号	标识	类型	功能详细说明
1	功放使能	输入	高电平（或悬空）打开功放，低电平关闭功放
2	驻波报警	输出	功放输出端外部驻波大于5时，功放关闭，此引脚将输出高电平。外部驻波小于5时，此引脚输出低电平。
3	温度报警	输出	功放壳体温度大于80℃时，功放关闭，此引脚将输出高电平。功放壳体温度降低到70℃时，功放恢复正常工作，此引脚将输出低电平。
4	过压报警	输出	供电电压超过32V, 功放关闭，此引脚将输出高电平。供电电压低于32V，此引脚输出低电平。
5	过载报警	输出	输入功率超过3dBm时, 功放关闭，此引脚将输出高电平。输入功率低于3dBm时，此引脚输出低电平。
6	复位	输入	当功放触发驻波保护时，功放将关闭，并进入状态锁定，给此引脚10us的低脉冲，将重启功放。只能复位驻波保护。
7	RX	输入	RS232数据接收端
8	TX	输出	RS232数据发送端
9	GND	输入	地

备注：控制电压为3.3V

Outline Drawing:

Unit: mm



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



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

Parameter	Min.	Typ.	Max.	Units
Operating Temperature	-45		+80	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	30,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Part Number	Description	Revision
TLPA1M200M-45-45-HS	Power amplifier 3MHz-30MHz,Gain:45dB,Psat:45dBm,28V DC, With Heatsink	Rev.3.0

