泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
+86-0512-62657975
sales@talentmw.com
www.talentmw.com

Model:TLPA5M500M-30-33-HS

Power Amplifier 5-500MHz,Gain:33dB,P1dB:33dBm

Feature:

- Ultra Wide Band: 5-500MHz
- Gain: 33 dB Typ
- P1dB Output Power: 33 dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range		5-500		MHz
Gain	30	33		dB
Gain Flatness		±0.5	±1	dB
Output P1dB	33	34		dBm
Output IP3		38		dBm
Noise Figure		7		dB
Input VSWR		1.5	2	:1
Output VSWR		1.5	2	:1
DC Voltage		24	28	V DC
DC Supply Current		0.9	1.5	A
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	120*144*45	mm
Weight	400	g

Absolute Maximum Ratings:

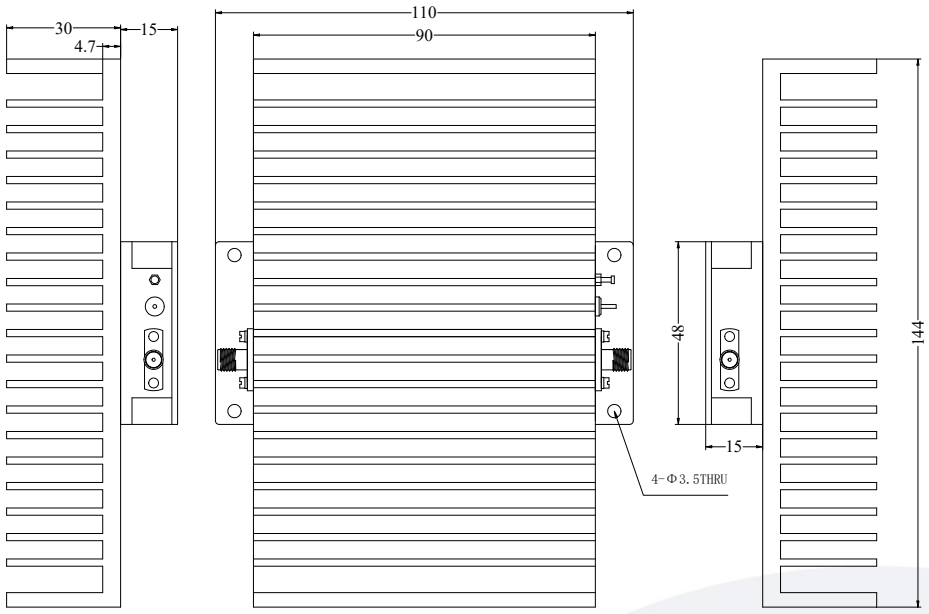
Parameter	Value
Supply Bias Voltage	+28 V
RF Input Power	+10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Available 220V System Benchtop Amplifier

Suzhou Talent Microwave,Inc
+86-0512-62657975
sales@talentmw.com
www.talentmw.com

Outline Drawing:

Unit: mm



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	-40		+60	℃
Non-operating Temperature*	-50		+70	℃
Relative humidity		95		%
Altitude	10,000			feet
Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

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

Ordering Information:

Part Number	Description	Revision
TLPA5M500M-30-33	Power amplifier 5-500MHz,Gain:30dB,Psat:33dBm, +24V DC,Without Heatsink	
TLPA5M500M-30-33-HS	Power amplifier 5-500MHz,Gain:30dB,Psat:33dBm, +24V DC,With Heatsink	Rev.1.1