泰莱微波
Talent Microwave

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

Model:TLPA900M950M-50-50

Power Amplifier 900-950MHz,Gain:50dB,Psat:50dBm

Feature:

- Ultra Wide Band: 900-950MHz
- Gain: 50 dB Min
- Psat Output Power: 50 dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range		900-950		MHz
Gain	50	52		dB
Gain Flatness			±1	dB
Output Psat	50			dBm
Input VSWR		1.5	2.0	:1
DC Voltage		+28		V DC
DC Supply Current		15		A
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	D-SUB-9	
Size	180*115*25	mm
Weight	250	g

Absolute Maximum Ratings:

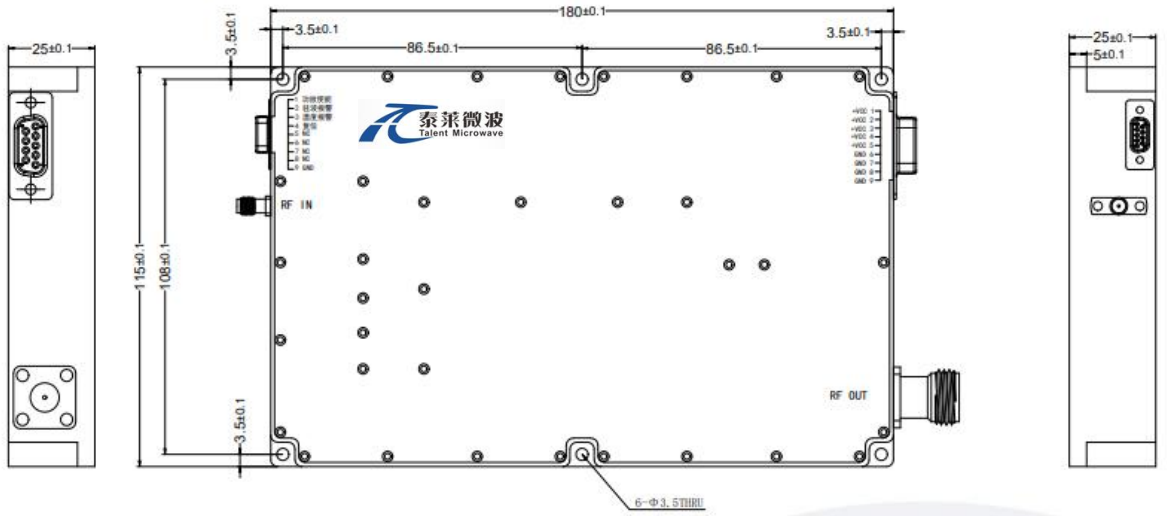
Parameter	Value
Supply Bias Voltage	+30 V
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Available 220V System Benchtop Amplifier

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

Outline Drawing:

Unit: mm



***Heat Sink Required During Operation

OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

D-SUB,9-Pin,Female:

Pin	Identification	Type	Function
1	+28V	Input	Power Supply Positive +28.0-33.0VDC
2	+28V	Input	Power Supply Positive +28.0-33.0VDC
3	+28V	Input	Power Supply Positive +28.0-33.0VDC
4	+28V	Input	Power Supply Positive +28.0-33.0VDC
5	+28V	Input	Power Supply Positive +28.0-33.0VDC
6	GND	Input	Power Supply Negative
7	GND	Input	Power Supply Negative
8	GND	Input	Power Supply Negative
9	GND	Input	Power Supply Negative

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

J30J,9-Pin,Female:

Pin	Identification	Type	Function
1	power amplifier enable	Input	A high (or suspended) level turns on the power amplifier, and a low level turns it off
2	Over VSWR	Output	When the external standing wave of the power amplifier output is greater than 5, the power amplifier is turned off, and this pin will output a high level. When the external standing wave is less than 5, this pin outputs a low level.
3	OVER Temp	Output	When the temperature of the power amplifier housing is greater than 70 ° C, the power amplifier is closed and this pin will output a high level. When the temperature of the power amplifier housing is reduced to 60 ° C, the power amplifier returns to normal operation, and this pin will output a low level.
4	RESET	Input	When the power amplifier triggers standing wave protection, the power amplifier will shut down and enter a state lock. Giving this pin a low pulse of 10us will restart the power amplifier. Only standing wave protection can be reset.
5	NC		No internal connection
6	NC		No internal connection
7	NC		No internal connection
8	NC		No internal connection
9	GND	Input	GND

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

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+70	℃
Non-operating Temperature	-55		+125	℃
Relative humidity		95		%
Altitude	30,000			feet
Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Part Number	Description	Revision
TLPA900M950M-50-50	Power amplifier 900-950MHz,Gain:50dB,Psat:50dBm, +28V DC,Without Heatsink	Rev.1.1
TLPA900M950M-50-50-HS	Power amplifier 900-950MHz,Gain:50dB,Psat:50dBm, +28V DC,With Heatsink	Rev.1.1