

Model: TMPA-075110-2515-10
Power Amplifier
75-110GHz, Gain:25 dB, Psat:15 dBm
Feature:

- Frequency Range: 75-110 GHz
- Gain:25 dB Type
- Output Power Psat:15 dBm Type
- Good Power and Gain Flatness

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	75-110			GHz
Small Signal Gain		25		dB
Output Psat		15		dBm
Input VSWR		1.4		:1
Output VSWR		1.8		:1
DC Voltage		12		V DC
DC Supply Current		125		mA

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	WR-10/UG-387/U	
DC Bias	Solder Pin	
Size	39*30*23	mm
Weight	/	g

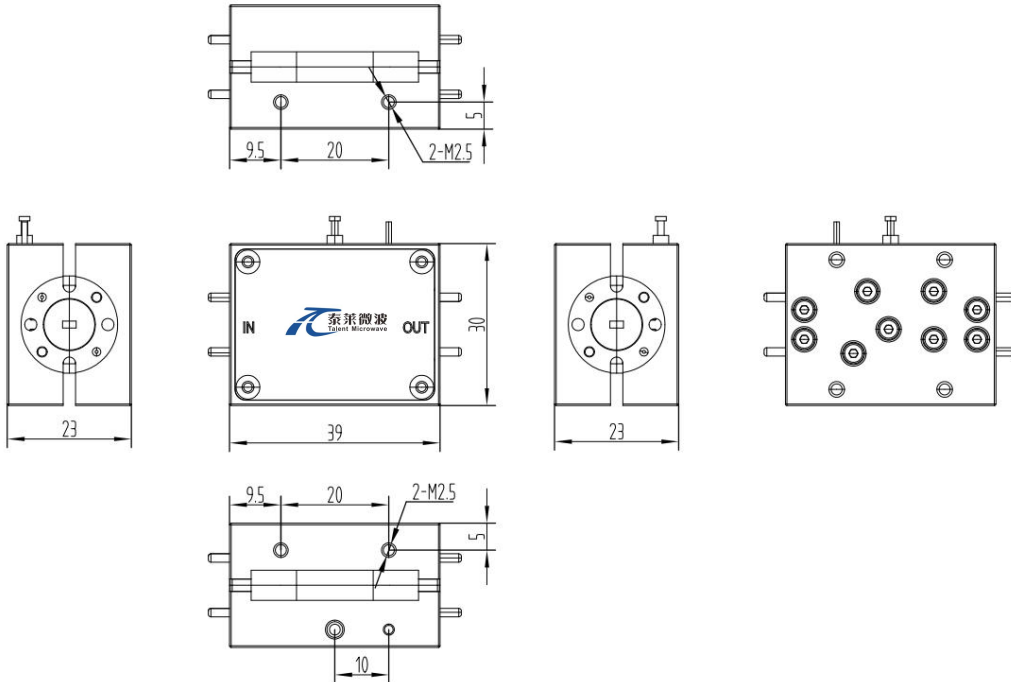
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+15 V
RF Input Power	0 dBm
ESD sensitivity (HBm)	Class 0, passed 150V


**Available 220V System
Benchtop Amplifier**

Outline Drawing:

Unit: mm



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

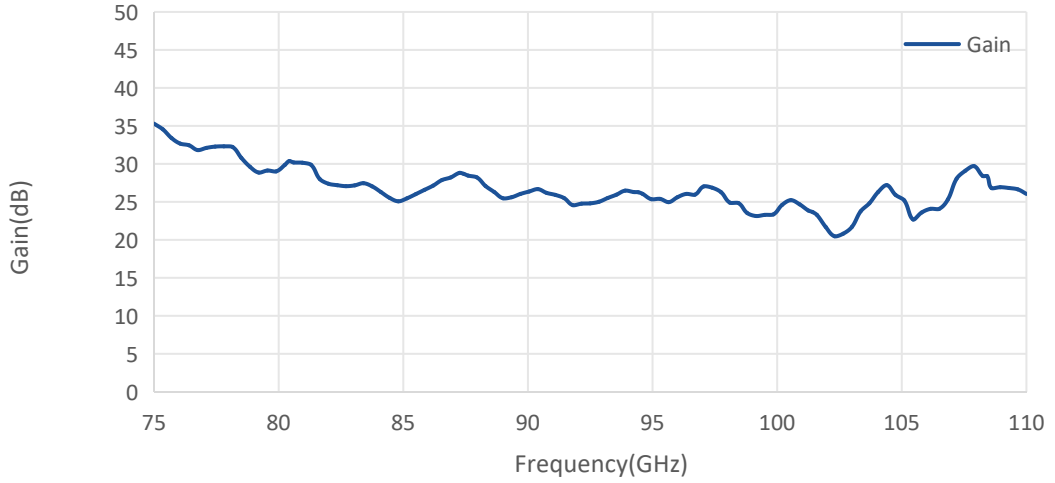
Parameter	Min	Typ	Max	Units
Operating Temperature	-10		+65	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude		10,000		feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

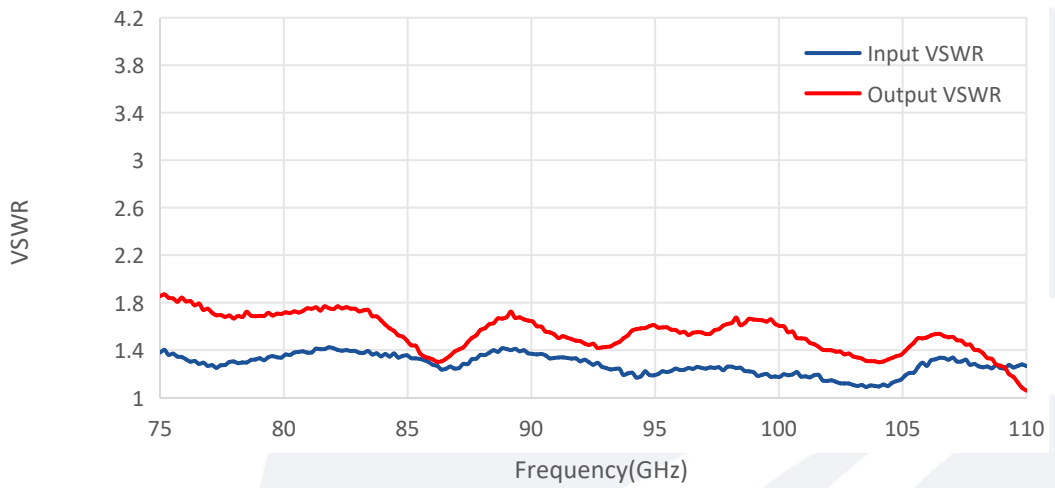
Part Number	Description	Revision
TMPA-075110-2515-10	Power Amplifier, 75-110GHz, Gain:25 dB Type, Psat:15 dBm Type, +12V DC, WR-10	Rev.1.1

Typical Performance Data:

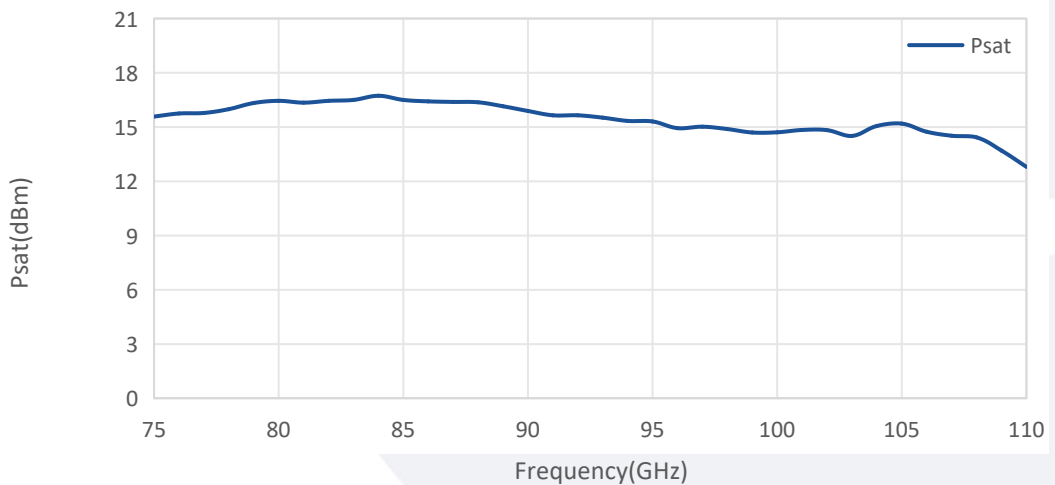
Gain vs Frequency



VSWR vs Frequency



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.