

Model: TMPA-110150-1413-06

Terahertz Power Amplifier 110-150 GHz, Gain:15 dB, Psat:15 dBm

Feature:

- Frequency Range:110-150 GHz
- Gain:15 dB Typ
- Output Power Psat:15 dBm Typ
- Good Power and Gain Flatness

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	110-150			GHz
Gain		15		dB
Output Psat		15		dBm
Input VSWR		2.5		:1
Output VSWR		2.5		:1
DC Voltage		12		V DC
DC Supply Current		120		mA

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	WR-06/UG-387/U	
DC Bias	Solder Pin	
Size	30*30*23	mm
Weight	/	g

Absolute Maximum Ratings:

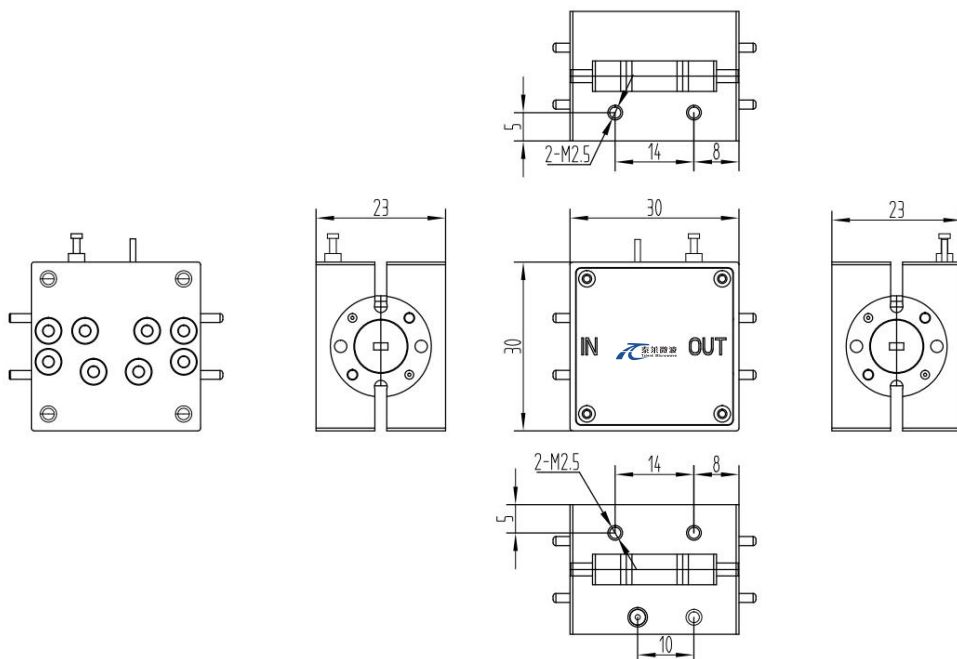
Parameter	Value
Supply Bias Voltage	TBD
RF Input Power	6dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

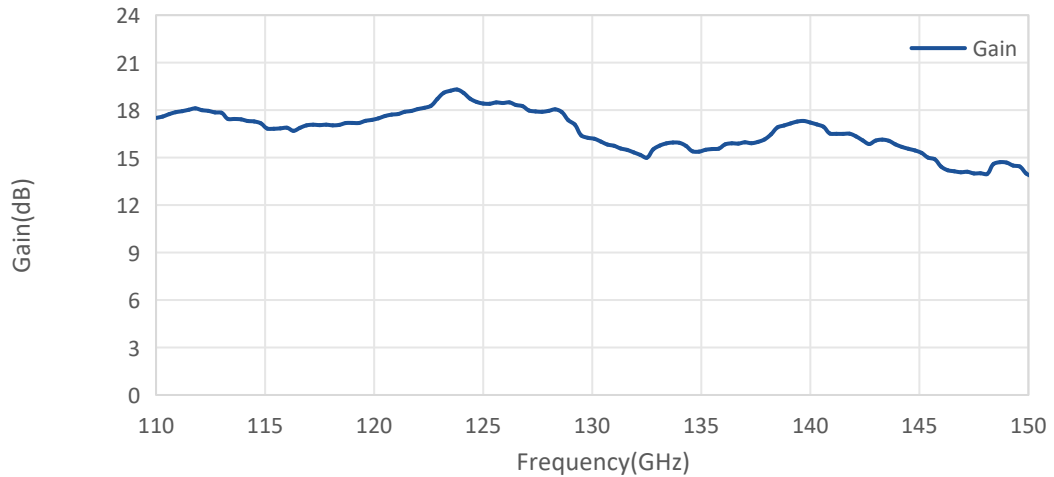
Parameter	Min	Typ	Max	Units
Operating Temperature	0		+50	°C
Non-operating Temperature	-45		+125	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

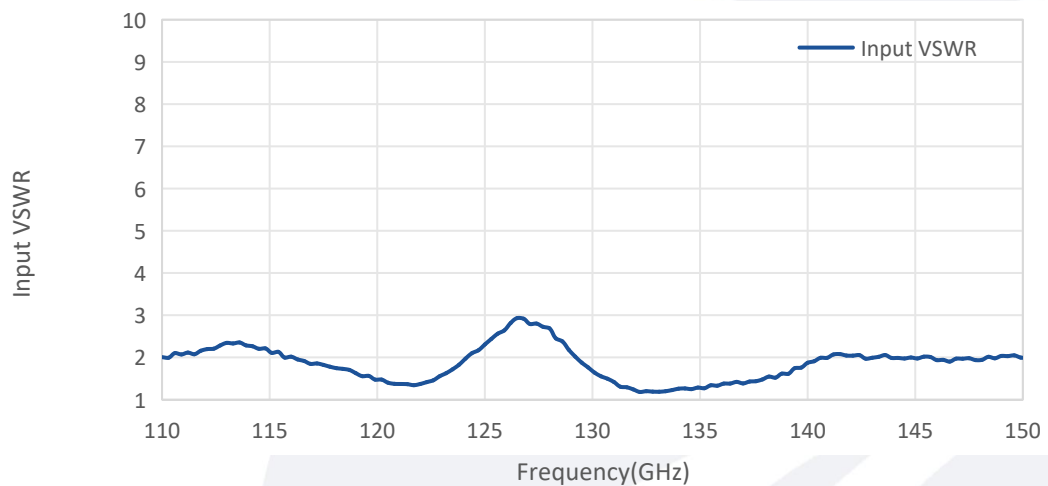
Part Number	Description	Revision
TMPA-110150-1413-06	Power Amplifier,110-150 GHz, Gain:15 dB Typ,Psat:15 dBm Typ,12V DC,WR-06	Rev.1.1

Typical Performance Data:

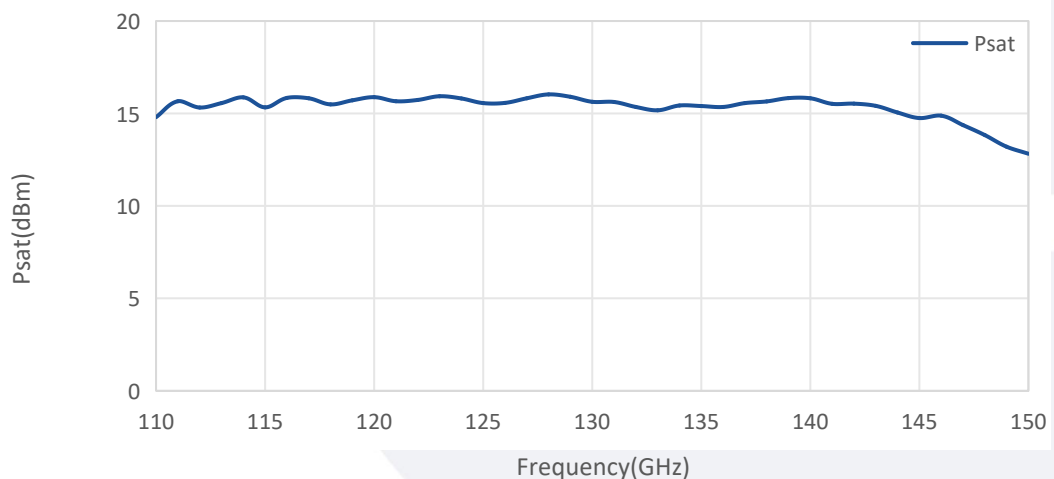
Gain vs Frequency



Input 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.