

**Model: TMPA-080086-2227-12**
**Power Amplifier**
**80-86GHz, Gain:18 dB, Psat:27 dBm**
**Feature:**

- Frequency Range: 80-86 GHz
- Gain:18 dB Type
- Output Power Psat:27 dBm Type
- Good Power and Gain Flatness

**Electrical Specifications:**

Parameter	Min	Typ	Max	Units
Frequency range	80-86			GHz
Small Signal Gain		18		dB
Output Psat		27		dBm
Input VSWR		2		:1
Output VSWR		2		:1
DC Voltage		12		V DC
DC Supply Current		330		mA

**Mechanical Specifications:**

Parameter	Value	Units
Input /Output Connector	WR-12/UG-387/U	
DC Bias	Solder Pin	
Size	50*40*20	mm
Weight	/	g

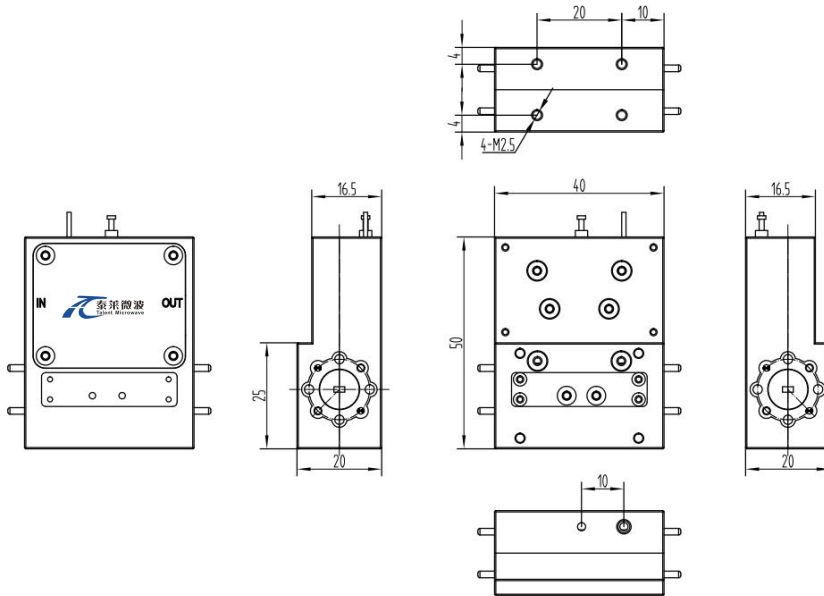
**Absolute Maximum Ratings:**

Parameter	Value
Supply Bias Voltage	+15 V
RF Input Power	17 dBm
ESD sensitivity (HBm)	Class 0, passed 150V


 Available 220V System  
 Benchtop Amplifier

**Outline Drawing:**

Unit: mm



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

**Environmental Conditions:**

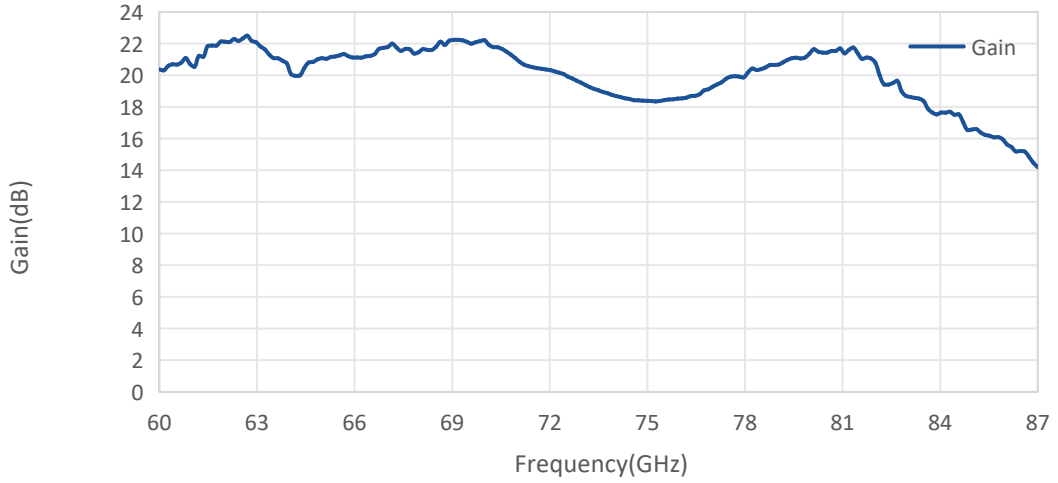
Parameter	Min	Typ	Max	Units
Operating Temperature	-10		+65	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

**Ordering Information:**

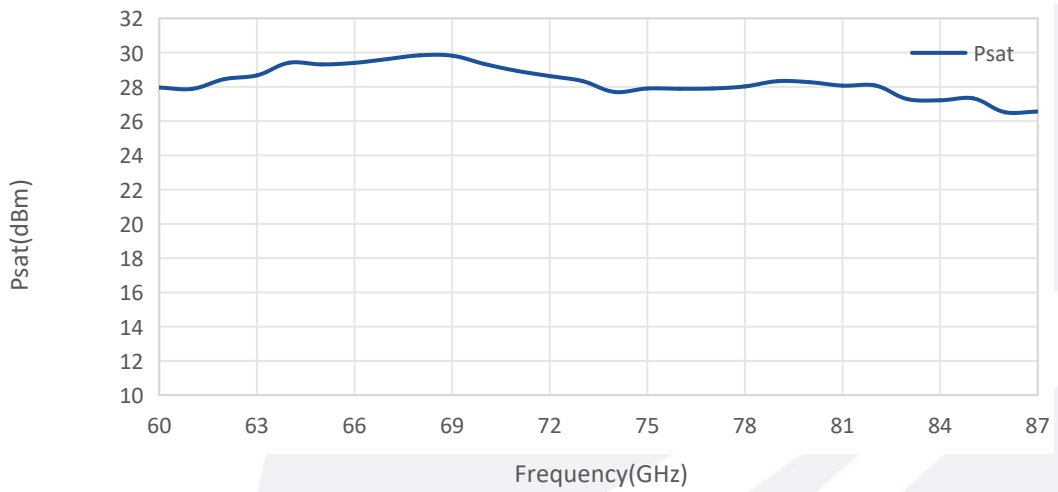
Part Number	Description	Revision
TMPA-080086-2227-12	Power Amplifier, 80-86 GHz, Gain:18 dB Type, Psat:27 dBm Type, +12V DC,WR-12	Rev.1.1

Typical Performance Data:

Gain 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.