Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

Power Amplifier

WR-4.3/210-230GHz/18dB Gain/14dBm Psat Model: TMPA-210230-1814-04

TMPA-210230-1814-04 is a power amplifier with a typical small signal gain of 18 dB and a nominal Psat of 14 dBm across the frequency range of 210 to 230 GHz. The DC power requirement for the amplifier is +7 VDC/360 mA. The input and output port configuration offers an inline structure with WR-4.3 waveguides and UG-387/U-M anticocking flanges.

Features:

- Frequency range: 210-230GHz
- Gain: 18dB Typ
- Output Power Psat: 14dBm Typ
- Good Power and Gain Flatness

Applications:

- Passive Imaging
- Communication Systems
- Radar Systems

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	210		230	GHz
Small Signal Gain		18		dB
Output Psat		14		dBm
Input VSWR		3		:1
Output VSWR		3		:1
DC Voltage		7		V DC
DC Supply Current		360		mA

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	WR-4.3/UG-387/U	
DC Bias	Solder Pin	
Size	35*28*22	mm

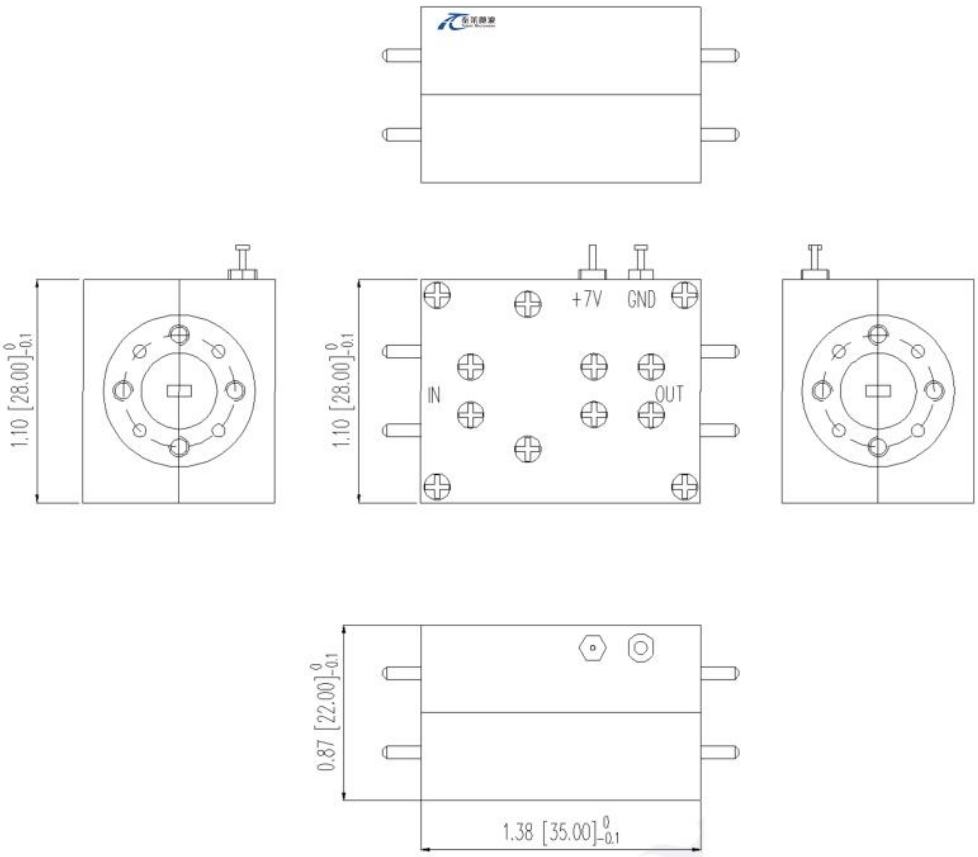
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Absolute Maximum Ratings:

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

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



***Heat Sink Required During Operation

ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

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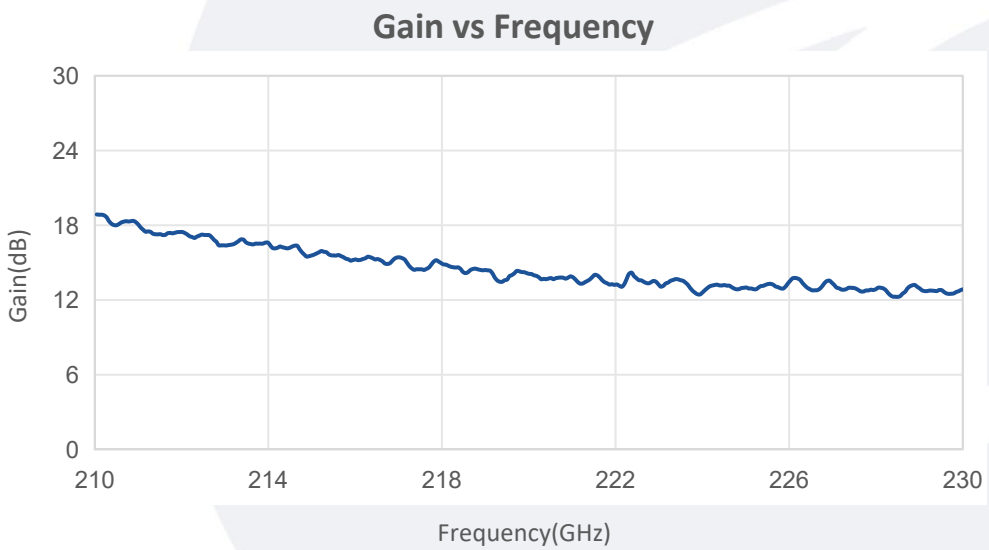
Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-10		+65	℃
Non-operating Temperature	-45		+85	℃
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:

Base Number	Description	Revision
TMPA-210230-1814-04	Power Amplifier, 210-230GHz, Gain: 18dB Type, Psat: 14dBm Type, +7V DC,WR-4.3, Without heasink	Rev.1.0
TMPA-210230-1814-04-HS	Power Amplifier, 210-230GHz, Gain: 18dB Type, Psat: 14dBm Type, +7V DC,WR-4.3, With heatsink	Rev.1.0

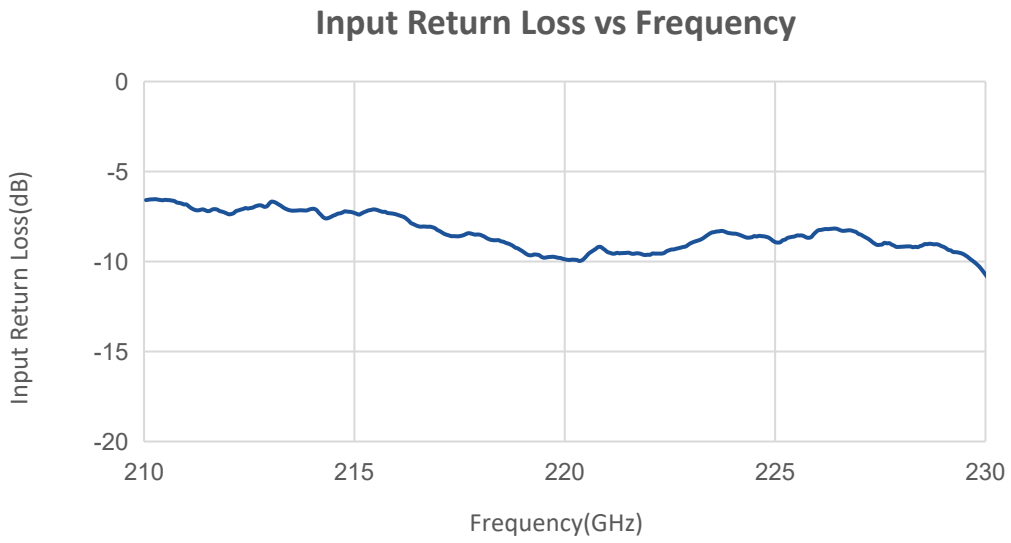
Typical Performance Data:

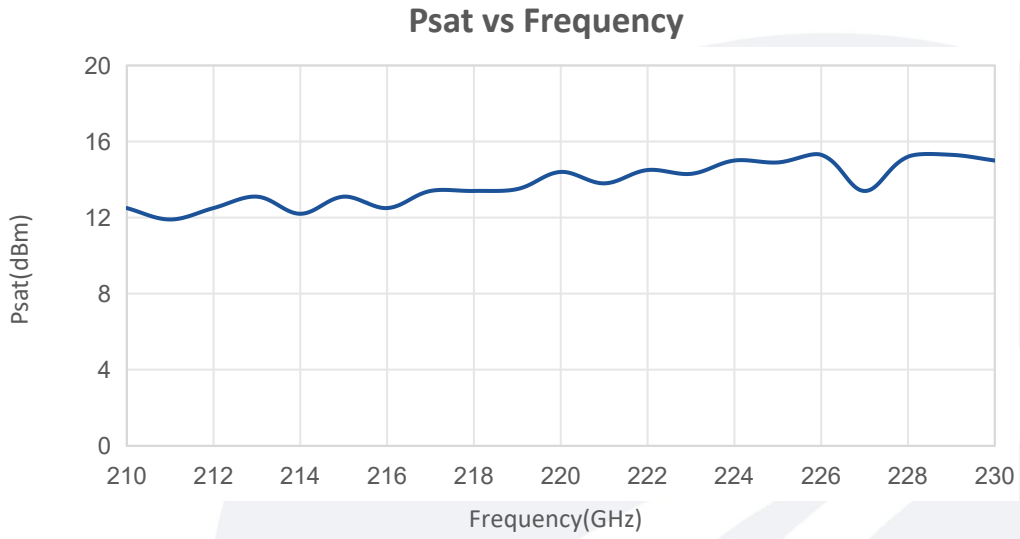


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

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典型曲线 Typical Performance Data:





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