

LT-PA-219270-1710
Power Amplifier
WR-03/219-270GHz/17dB Gain/10 dBm Psat
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LT-PA-219270-1710 is a power amplifier with a small signal gain of 17 dB and a Psat of 10 dBm across the frequency range of 219 to 270 GHz. The DC power requirement for the amplifier is +12 VDC/210 mA. The input and output port configuration offers an inline structure with WR-03 waveguides and UG-387/U-M antcocking flanges.

Features:

- Frequency range: 219-270GHz
- Gain: 17dB Typ
- Output Power Psat: 10dBm Typ
- Good Power and Gain Flatness

Applications:

- Passive Imaging
- Communication Systems
- Radar Systems

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	219-270			GHz
Small Signal Gain		17		dB
Output Psat		10		dBm
Input VSWR		2.5		:1
DC Voltage		12		V DC
DC Supply Current		210		mA

Mechanical Specifications:

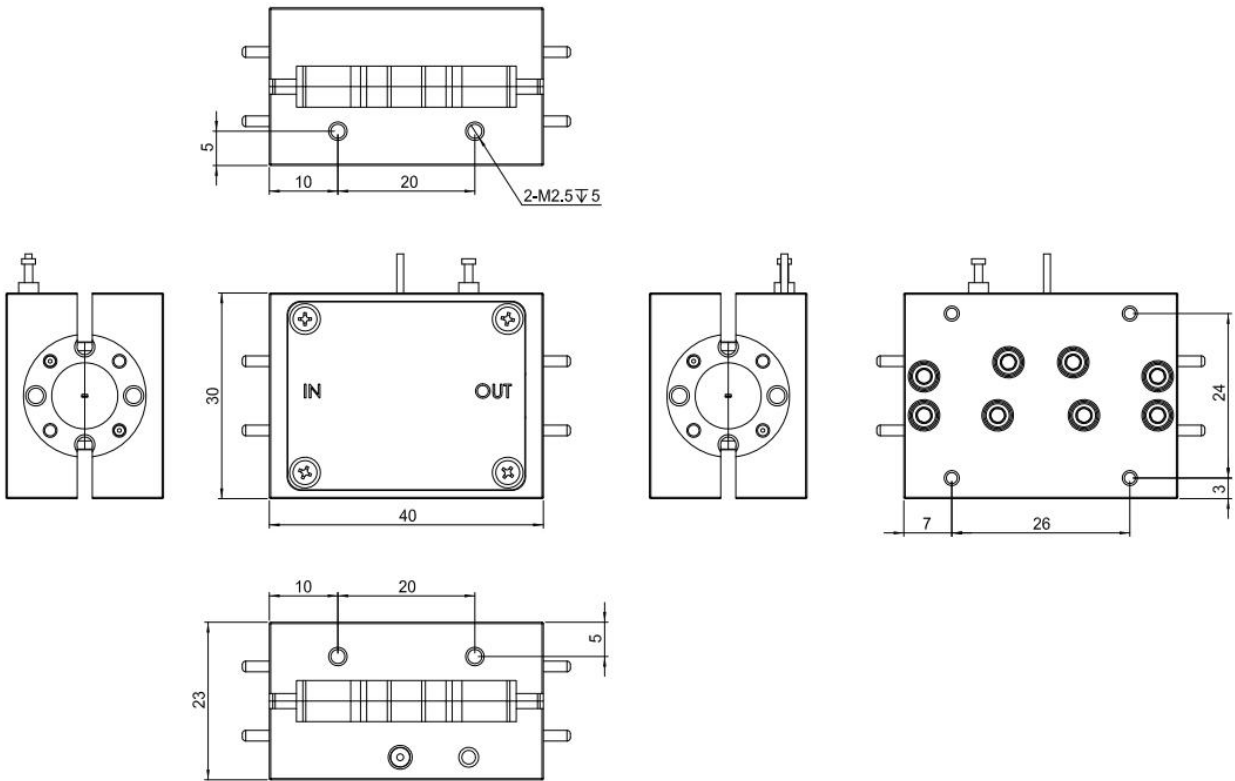
Parameter	Value	Units
Input /Output Connector	WR-03/UG-387/U	
DC Bias	Solder Pin	
Size	40*30*23(Without Heatsink)	mm

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+15 V
RF Input Power	+20 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm

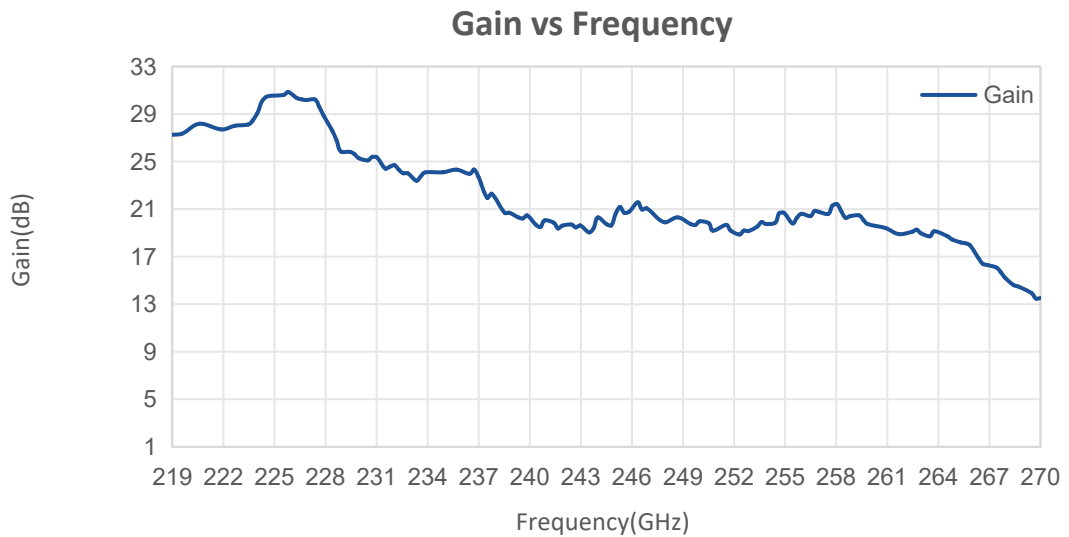


ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-10		+65	°C
Non-operating Temperature	-45		+85	°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			

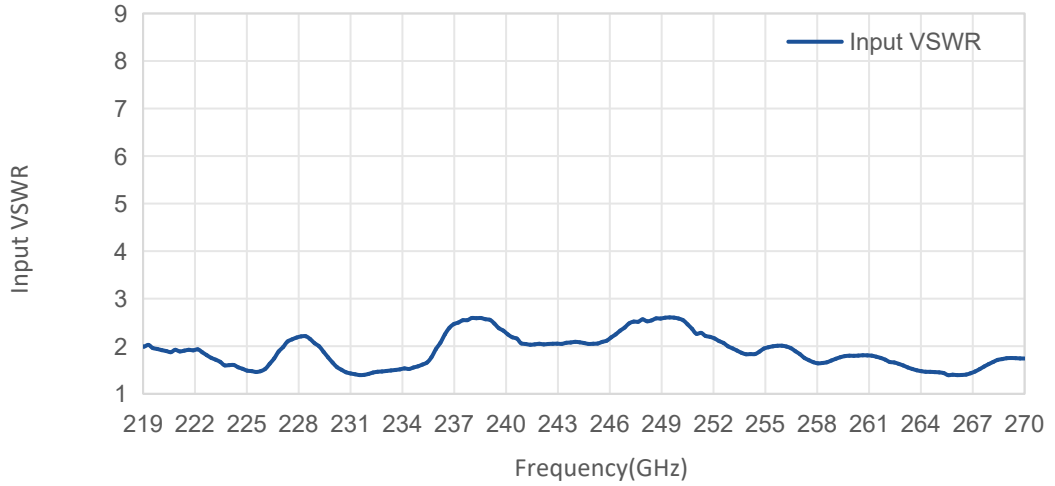
Typical Performance Data:



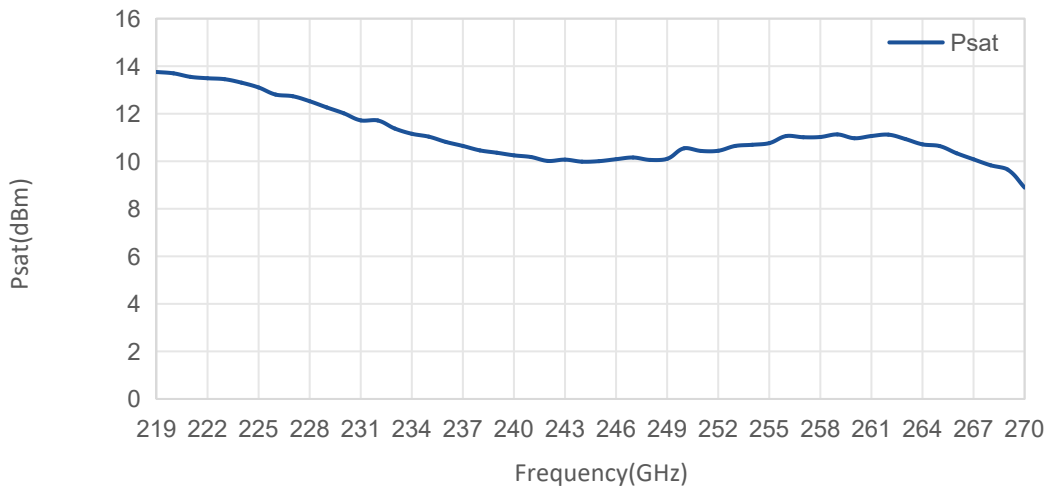
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

Typical Performance Data:

Input VSWR vs Frequency



Psat vs Frequency



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