Suzhou Talent Microwave,Inc
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Power Amplifier

WR-08/85-130GHz/17dB Gain/22dBm Psat Model: TMPA-085135-1622-08

TMPA-085135-1622-08 is a power amplifier with a typical small signal gain of 17 dB and a nominal Psat of 22 dBm across the frequency range of 85 to 130 GHz. The DC power requirement for the amplifier is +9 VDC/1.5 A. The input and output port configuration offers an inline structure with WR-08 waveguides and UG-387/U-M anticocking flanges.

Features:

- Frequency range: 85-130GHz
- Gain: 17dB Typ
- Output Power Psat: 22dBm Typ
- Good Power and Gain Flatness

Applications:

- Passive Imaging
- Communication Systems
- Radar Systems

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	85		135	GHz
Small Signal Gain		17		dB
Output Psat		22		dBm
Input VSWR		2		:1
Output VSWR		2		:1
DC Voltage		9		V DC
DC Supply Current		1.5		A

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	WR-08/UG-387/U	
DC Bias	Solder Pin	
Size	30*50*22	mm

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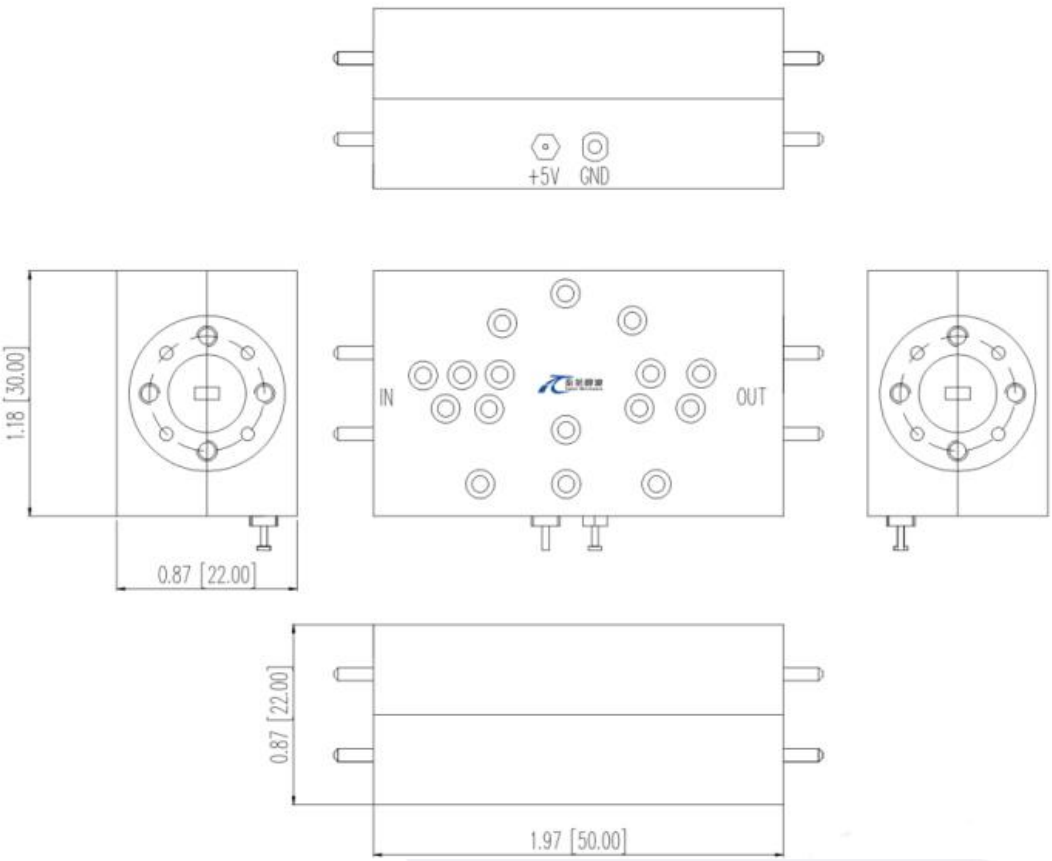
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	TBD
RF Input Power	+12 dBm
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-085135-1622-08	Power Amplifier, 85-130GHz, Gain: 17dB Type, Psat: 22dBm Type, +17V DC,WR-08, Without heasink	Rev.1.1
TMPA-085135-1622-08-HS	Power Amplifier, 85-130GHz, Gain: 17dB Type, Psat: 22dBm Type, +17V DC,WR-08, With heasink	Rev.1.1