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

Power Amplifier

WR-10/92-96GHz/21dB Gain/33dBm Psat

Model: TMPA-092096-2133-10

TMPA-092096-2133-10 is a power amplifier with a typical small signal gain of 21 dB and a nominal Psat of 33 dBm across the frequency range of 92 to 96 GHz. The DC power requirement for the amplifier is +24 VDC/1.4 A. The input and output port configuration offers an inline structure with WR-10 waveguides and UG-387/U-M anticocking flanges.

Features:

- Frequency range: 92-96GHz
- Gain: 21dB Typ
- Output Power Psat: 33dBm Typ
- Good Power and Gain Flatness

Applications:

- Passive Imaging
- Communication Systems
- Radar Systems

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	92		96	GHz
Small Signal Gain		21		dB
Output Psat		33		dBm
Input VSWR		2		:1
Output VSWR		1.5		:1
DC Voltage		24		V DC
DC Supply Current		1.4		A

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	WR-10/UG-387/U	
DC Bias	Solder Pin	
Size	54*56*24(Without heatsink) 54*87*68(With heatsink)	mm

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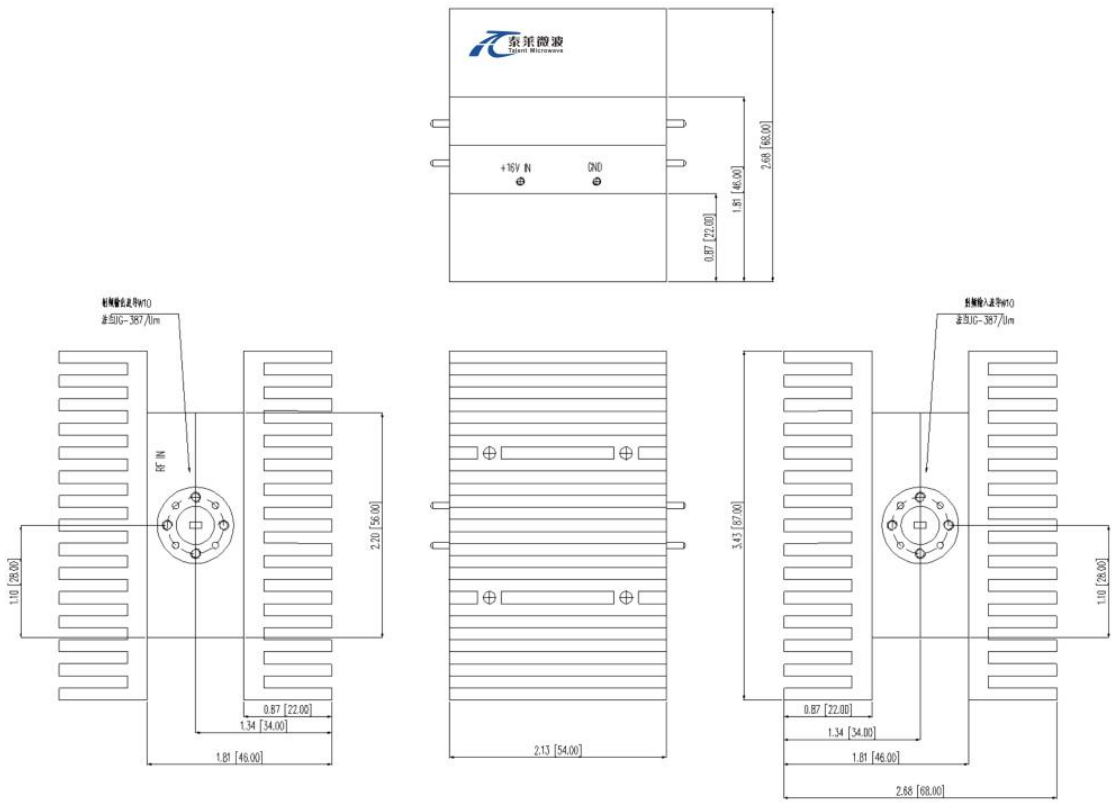
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+28 V
RF Input Power	TBD
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



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-092096-2133-10	Power Amplifier, 92-96GHz, Gain: 21dB Type, Psat: 33dBm Type, +24V DC,WR-10, Without heasink	Rev.1.1
TMPA-092096-2133-10-HS	Power Amplifier, 92-96GHz, Gain: 21dB Type, Psat: 33dBm Type, +24V DC,WR-10, With heasink	Rev.1.1