

Power Amplifier

WR-12/65-90GHz/20dB Gain/15dBm Psat

Model: TMPA-065090-2016-12

TMPA-065090-2016-12 is a power amplifier with a typical small signal gain of 20 dB and a nominal Psat of 15 dBm across the frequency range of 65 to 90 GHz. The DC power requirement for the amplifier is +5 VDC/1.5 A. The input and output port configuration offers an inline structure with WR-12 waveguides and UG-387/U-M antcocking flanges.

Features:

- Frequency range: 65-90GHz
- Gain: 20dB Typ
- Output Power Psat: 15dBm Typ
- Good Power and Gain Flatness

Applications:

- Passive Imaging
- Communication Systems
- Radar Systems

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	65		90	GHz
Small Signal Gain		20		dB
Output Psat		15		dBm
Input VSWR		2		:1
Output VSWR		2		:1
DC Voltage		5		V DC
DC Supply Current		1.5		A

Mechanical Specifications:

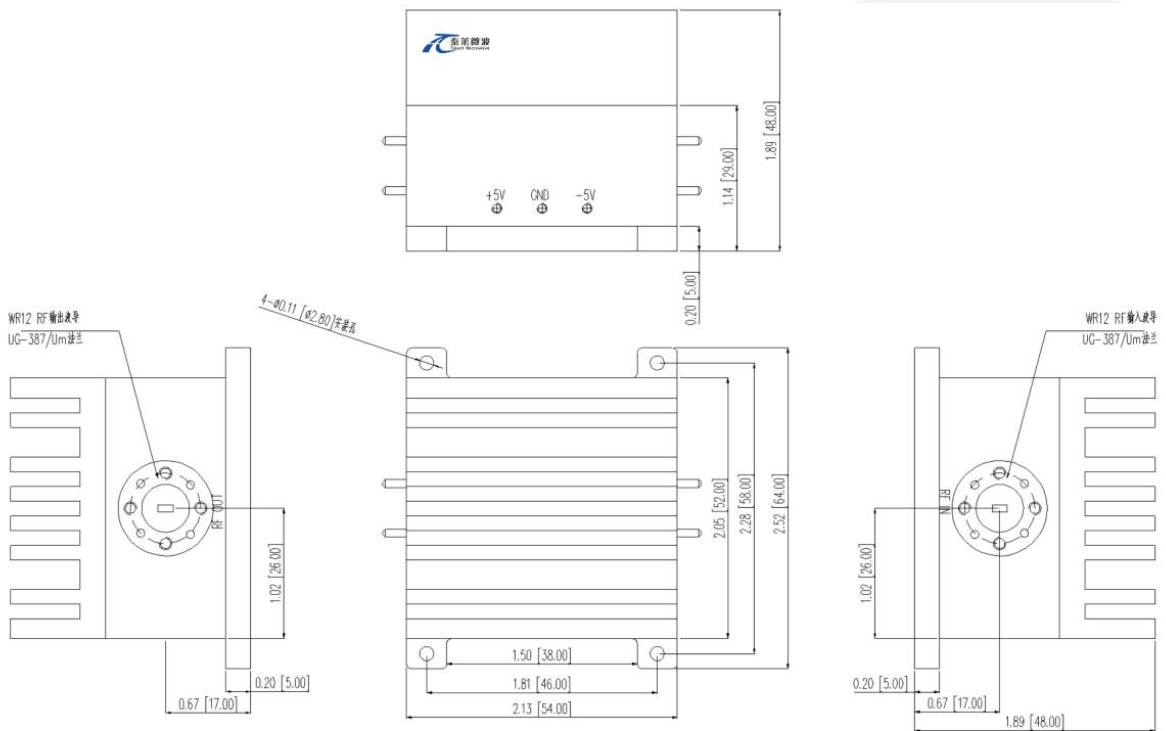
Parameter	Value	Units
Input /Output Connector	WR-12/UG-387/U	
DC Bias	Solder Pin	
Size	54*64*48	mm

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+6 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.

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			

Ordering Information:

Base Number	Description	Revision
TMPA-065090-2016-12	Power Amplifier, 65-90GHz, Gain: 20dB Type, Psat: 15dBm Type, +5V DC, WR-12, With heasink	Rev.1.0