

## Power Amplifier

WR-15/55-66GHz/18dB Gain/23dBm Psat

Model: TMPA-055066-1823-15

TMPA-055066-1823-15 is a power amplifier with a typical small signal gain of 18 dB and a minimum Psat of 23 dBm across the frequency range of 50 to 75 GHz. The DC power requirement for the amplifier is +5 VDC/1.5A. The input and output port configuration offers an inline structure with WR-15 waveguides and UG-385/U-M antcocking flanges.

### Features:

- Frequency range: 55-66GHz
- Gain: 18dB Typ
- Output Power Psat: 23dBm Typ
- Good Power and Gain Flatness

### Applications:

- Passive Imaging
- Communication Systems
- Radar Systems

### Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	55		66	GHz
Small Signal Gain		18		dB
Output Psat		23		dBm
Input VSWR		3		:1
Output VSWR		3		:1
DC Voltage		5		V DC
DC Supply Current		1.5		A

### Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	WR-15/UG-385/U	
DC Bias	Solder Pin	
Size	TBD	mm

### 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



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-055066-1823-15	Power Amplifier, 55-66GHz, Gain: 18dB Type, Psat: 23dBm Typ, +5V DC,WR-15,Without heatsink	Rev.1.1
TMPA-055066-1823-15-HS	Power Amplifier, 55-66GHz, Gain: 18dB Type, Psat: 23dBm Typ, +5V DC,WR-15,With heatsink	Rev.1.1