

Power Amplifier

WR-19/40-60GHz/37dB Gain/37dBm Psat**Model: TMPA-040060-3737-19**

TMPA-040060-3737-19 is a power amplifier with a minimum small signal gain of 37 dB and a minimum Psat of 37 dBm across the frequency range of 40 to 60 GHz. The DC power requirement for the amplifier is +18VDC/10 A. The input and output port configuration offers an inline structure with WR-19 waveguides and UG-383/U-M antcocking flanges.

Features:

- Frequency: 40-60GHz
- Gain: 37dB Min
- Output Power Psat: 37dBm Min
- Good Power and Gain Flatness

Applications:

- Passive Imaging
- Communication Systems
- Radar Systems

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	40-60			GHz
Small Signal Gain	37			dB
Output Psat	37			dBm
Spurious@Pout=37dBm			-50	dBc
DC Voltage		18		V DC
DC Supply Current		10		A

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	WR-19/UG-383/U	
DC Supply Connector	J30J-9ZKP	Pin1~5:+18V Pin6~9:GND
Size	155*90*28	mm
Weight	≤500	g

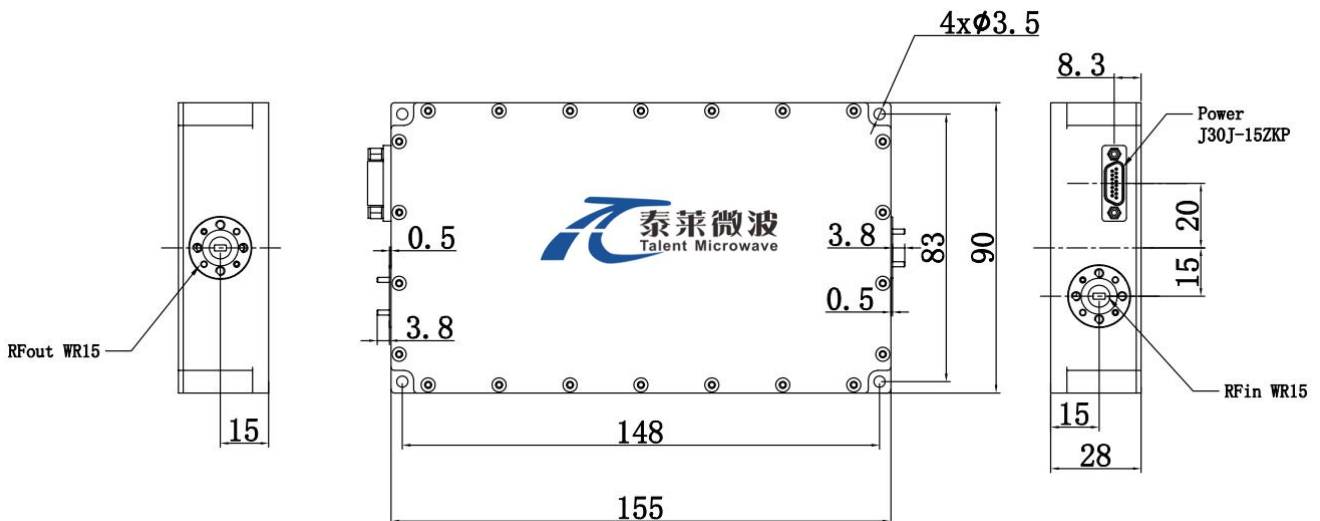
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	TBD
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm

Regulatory Compliance:



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

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-40		+60	°C
Non-operating Temperature	-50		+70	°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
TPMA-040060-3737-19	Power Amplifier, 40-60 GHz, Gain:37dB Min, Psat:37 dBm Min, +18V DC,WR-19,Without Heatsink	Rev.1.1
TPMA-040060-3737-19-HS	Power Amplifier, 40-60 GHz, Gain:37dB Min, Psat:37 dBm Min, +18V DC,WR-19,With Heatsink	Rev.1.1