

Power Amplifier

WR-19/40-60GHz/37dB Gain/37dBm Psat

TMPA-040060-3737-19

TURPA-040060373719 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

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range	40-60			GHz
小信号增益 Small Signal Gain	37			dB
饱和输出功率 Output Psat	37			dBm
杂散 Spurious@Pout=37dBm			-50	dBc
直流电压 DC Voltage		18		V DC
直流电流 DC Supply Current		10		A

机械特性 Mechanical Specifications:

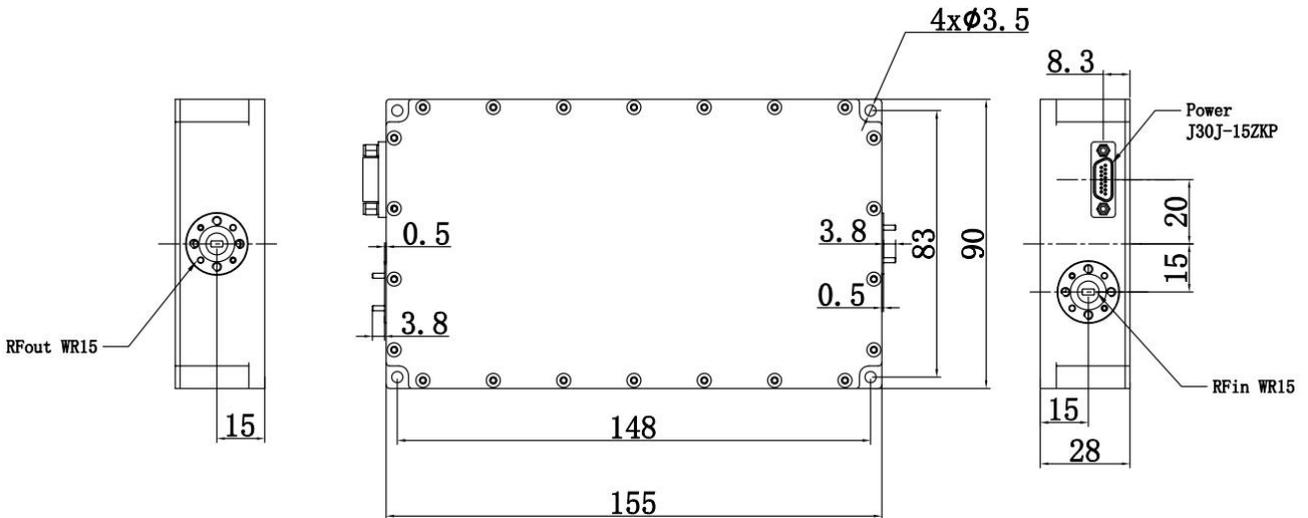
参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	WR-19/UG-383/U	
直流供电接口 DC Supply Connector	J30J-9ZKP	Pin1~5:+18V Pin6~9:GND
尺寸 Size	155*90*28	mm

重量

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	TBD
输入功率 RF Input Power	+5 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形图 Outline Drawing: Unit:mm



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

温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-40		+60	°C
存储温度 Non-operating Temperature	-50		+70	°C
相对湿度 Relative humidity		95		%
海拔 Altitude		10,000		feet

订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TURPA-040060373719	Power Amplifier, 40-60 GHz, Gain:37dB Min, Psat:37 dBm Min, +18V DC,WR-19,Without Heatsink	Rev.1.1
TURPA-040060373719 HS	Power Amplifier, 40-60 GHz, Gain:37dB Min, Psat:37 dBm Min, +18V DC,WR-19,With Heatsink	Rev.1.1