

## Power Amplifier

40-67GHz/43dB Gain/40dBm Psat

Model: TLPA40G67G-43-40

TLPA40G67G-43-40 is a power amplifier with a minimum power gain of 43 dB and a minimum Psat of 40 dBm across the frequency range of 40 to 67 GHz. The DC power requirement for the amplifier is +18 VDC/35 A. The input port configuration offers coax adapter structure with 1.85mm female and output port is WR19 waveguide with a UG-383/U-M anti-cocking flange.

### Features:

- Frequency range: 40-67GHz
- Gain: 43dB Min
- Output Power Psat: 40dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

### Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

## 电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range	40		67	GHz
功率增益 Power Gain	43			dB
线性输出功率 Output P1dB	35			dBm
饱和输出功率 Output Psat	40	43		dBm
杂散 Spurious@Pout=43dBm			-50	dBc
输入驻波 Input VSWR		2.5		:1
直流电压 DC Voltage		18	18.5	V DC
直流电流 DC Supply Current		35		A
阻抗 Impedance		50		Ohms

## 机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	1.85mm Female/WR-19/UG-383/U	
直流供电接口 DC Supply Connector	DSUB-5W5	A1~A2: +18V A3~A5: GND
控制接口 Control Connector	J30J-15ZKP	
尺寸 Size	300*262*92	mm
重量 Weight	≤7.5	Kg

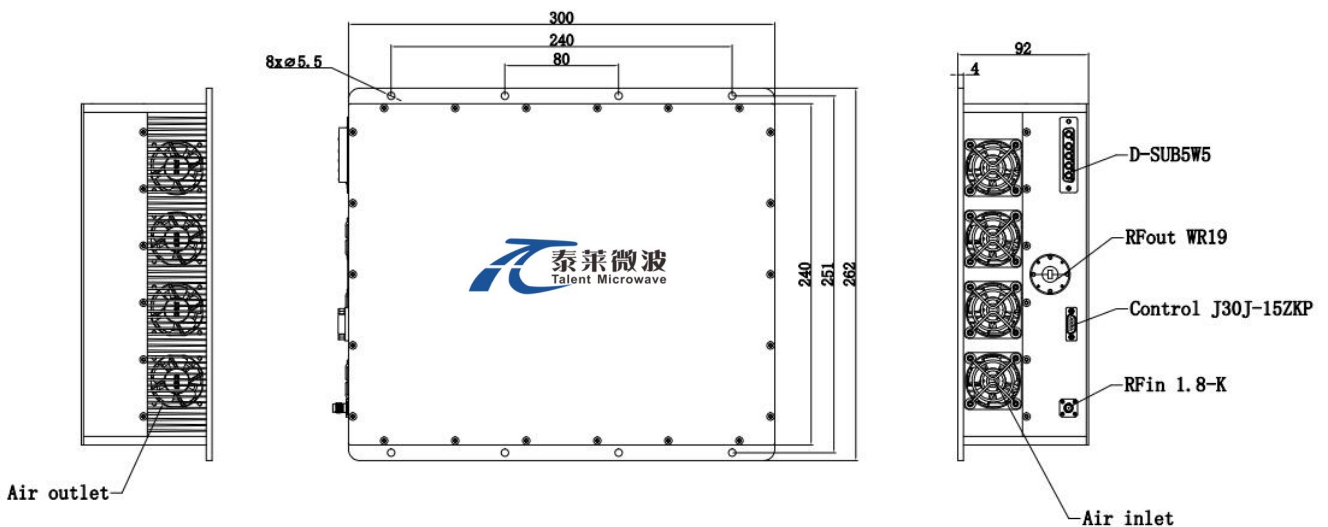
## 绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+18.5 V
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



**\*\*\*Heat Sink Required During Operation**



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		+50	°C
存储温度 Non-operating Temperature*	-50		+60	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	10,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

\*Note: For a wider temperature range, please consult the manufacturer.

## 订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TLPA40G67G-43-40	Power amplifier 40-67GHz, Gain:43dB,Psat:40dBm,+18V DC,With Heatsink	Rev.1.0