

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

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	40		67	GHz
Power Gain	43			dB
Output P1dB	35			dBm
Output Psat	40	43		dBm
Spurious@Pout=43dBm			-50	dBc
Input VSWR		2.5		:1
DC Voltage		18	18.5	V DC
DC Supply Current		35		A
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	1.85mm Female/WR-19/UG-383/U	
DC Supply Connector	DSUB-5W5	A1~A2: +18V A3~A5: GND
Control Connector	J30J-15ZKP	
Size	300*262*92	mm
Weight	≤7.5	Kg

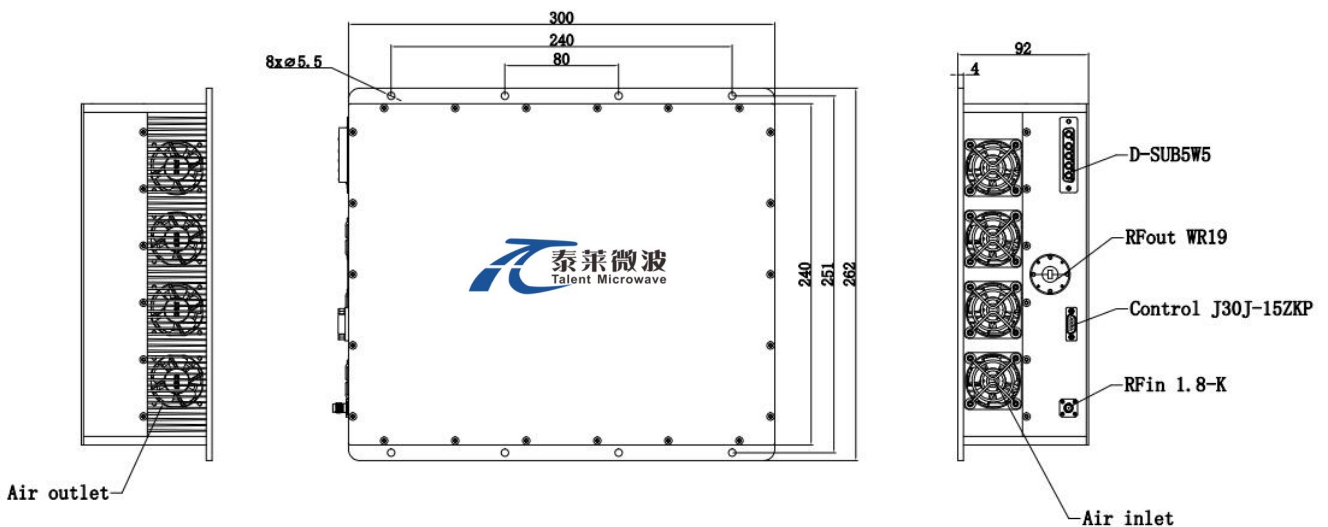
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+18.5 V
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Outline Drawing:

Unit:mm



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



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

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	-40		+50	°C
Non-operating Temperature*	-50		+60	°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			

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

Ordering Information:

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