泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
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Power Amplifier

18-52GHz/33dB Gain/28dBm Psat

Model: TLPA18G52G-34-28

TLPA18G52G-34-28 is a power amplifier with a typical small signal gain of 33 dB and a nominal Psat of 28 dBm across the frequency range of 18 to 52 GHz. The DC power requirement for the amplifier is +12 VDC/1.3 A. The input and output port configuration offers coax adapter structure with 2.4mm female.

Features:

- Frequency range: 18-52GHz
- Gain: 33dB Typ
- Output Power Psat: 28dBm Typ
- 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	18		52	GHz
Small Signal Gain	30	33		dB
Gain Flatness				dB
Output P1dB	25	26		dBm
Output Psat	26	28		dBm
Return Loss		-10		dB
DC Voltage	10	12	15	V DC
Static Current		0.85		A
Saturation current		1.3	1.5	A
Impedance		50		Ohms

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Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	2.4mm Female/2.4mm Female	
DC Bias	Solder Pin	
Size	65*50*14(Without heatsink) 50*100*64(With heatsink)	mm

Absolute Maximum Ratings:

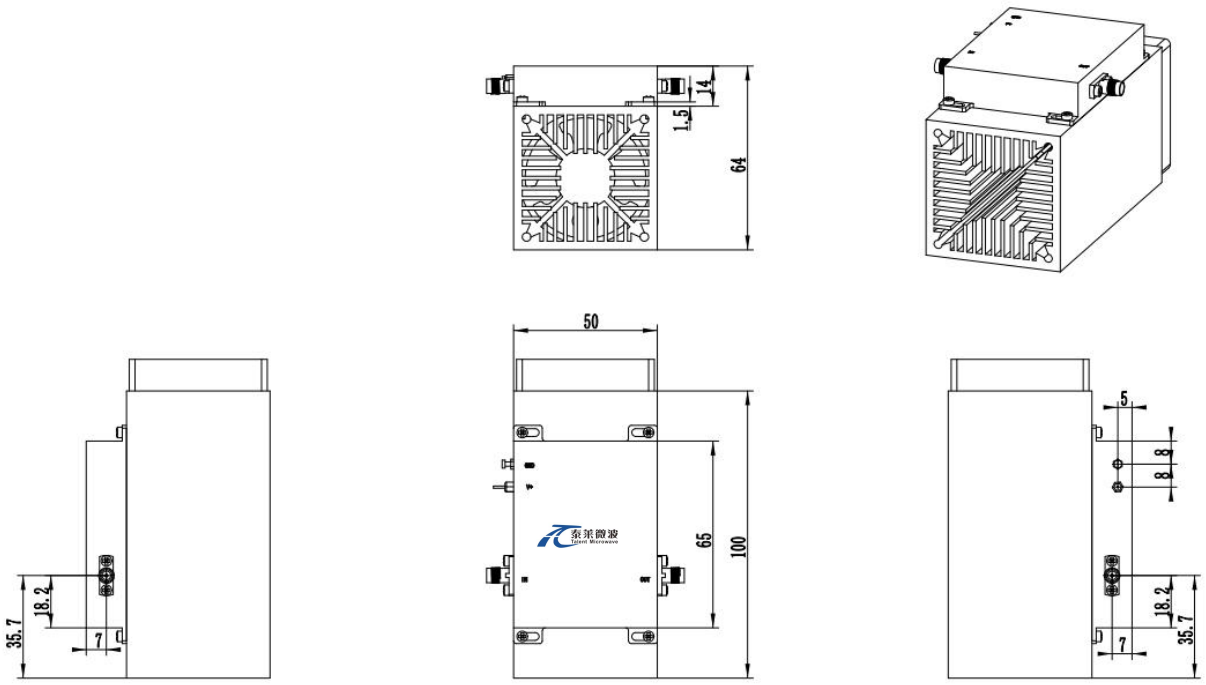
Parameter	Value
Supply Bias Voltage	+15 V
RF Input Power	+10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Simple 220V System
Available SAC option

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



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

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Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	-40		+60	℃
Non-operating Temperature*	-50		+70	℃
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
TLPA18G52G-34-28	Power amplifier 18-52GHz, Gain:33dB,Psat:28dBm,+12V DC,Without Heatsink	Rev.1.0
TLPA18G52G-34-28-HS	Power amplifier 18-52GHz, Gain:33dB,Psat:28dBm,+12V DC,With Heatsink	Rev.1.0