泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
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Power Amplifier

2.7-3.5GHz /53 dB Gain/53 dBm Psat Model: TLPA2.7G3.5G-53-53

TLPA2.7G3.5G-53-53 is a power amplifier with a typical power gain of 53 dB and a nominal Psat of 53 dBm across the frequency range of 2.7 to 3.5 GHz. The DC power requirement for the amplifier is +28 VDC/25 A. The input and output port configuration offers coax adapter structure with SMA Female/N Female.

Features:

- Ultra Wide Band: 2.7-3.5GHz
- Gain: 53dB Min
- Output Power Psat: 53dBm 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		2.7-3.5		GHz
功率增益 Power Gain	53			dB
增益平坦度 Gain Flatness		±3		dB
线性输出功率 Output P1dB		50		dBm
饱和输出功率 Output Psat	53	54		dBm
谐波 Harmonic@Pout=53dBm			-20	dBc
输入驻波 Input VSWR		1.5	2.0	:1
直流电压 DC Voltage	26	28	30	V DC
直流电流 DC Supply Current		25	30	A
阻抗 Impedance		50		Ohms

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机械特性 Mechanical Specifications:

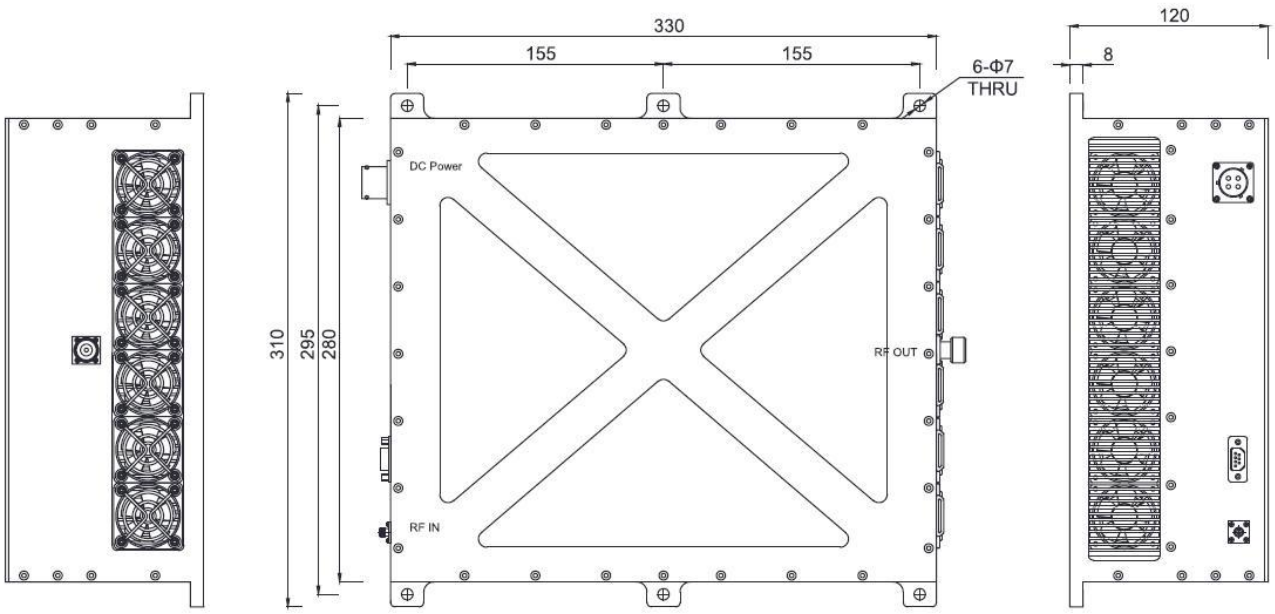
参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	SMA Female/N Female	
直流偏置 DC Bias	+28V	
尺寸 Size	330*310*120	mm
重量 Weight	20	Kg

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+30V
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



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主要功能 Key Features:

参数 Parameter	说明 Specification
过温保护 Over Temp Protection	55℃ Max(Case)
过压保护 Over Voltage Protection	32V Max
过流保护 Over Current Protection	35A Max
正向/反向功率监测 Forward /Reverse Power Sense(analog Voltage)	
电流监测 Current Sense(analog Voltage)	
温度监测 Temp Sense (analog Voltage)	

温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature*	-20		+50	℃
存储温度 Non-operating Temperature*	-30		+60	℃
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 Desciption	版本号 Revision
TLPA2.7G3.5G-53-53	Power amplifier 2.7-3.5GHz,Gain:53dB,Psat:53dBm, +28V DC,With Heatsink	Rev.1.1