

Power Amplifier

2-18GHz/53dB Gain/53dBm Psat

Model: TLPA2G18G-53-53-HS

TLPA2G18G-53-53-HS is a power amplifier with minimum power gain of 53 dB and a minimum Psat of 53 dBm across the frequency range of 2 to 18 GHz. The AC power requirement for the amplifier is +220 VAC/3500 W. The input and output port configuration offers coax adapter structure with N female.

Features:

- Frequency range: 2-18GHz
- Gain: 53dB Min
- Output Power Psat: 53dBm Min
- Protection: Over TEM, over current, over voltage, load VSWR protection
- 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		18	GHz
功率增益 Power Gain	53			dB
饱和输出功率 Output Psat	53			dBm
功率增益平坦度 Power Gain flatness		±4		dB
杂散 Spurious@Pout=53dBm			-60	dBc
谐波 Harmonics@Pout=53dBm			-10	dBc
输入驻波 Input VSWR			2	:1
交流电压 AC Voltage		+220		V AC
功耗 Power Consumption			3500	W
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	N Female/N Female	
通信接口 Communication Connector	RS422/LAN	
尺寸 Size	429*376*210	mm
重量 Weight	≤50	Kg

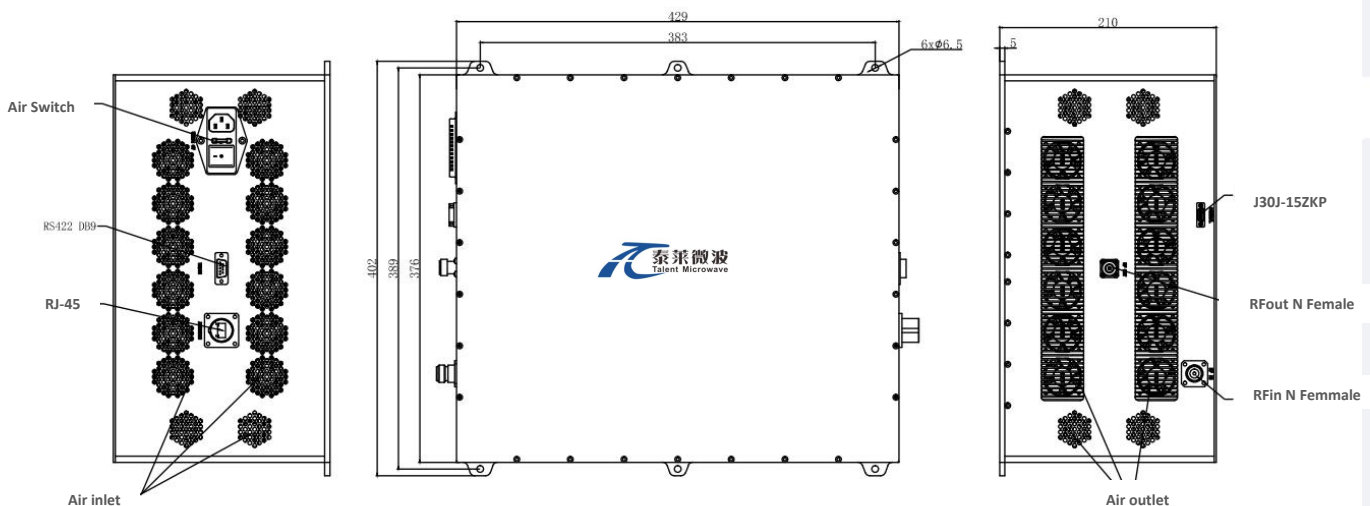
绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
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.

主要功能 Key Features:

参数 Parameter	特点 Advantages
内置保护功能 Protection functions	1,Over TEM 2,Over voltage 3,Over current 4,Over VSWR protection
监测功能 Monitor functions	1,Output/reflected power 2,Operating voltage 3,Operating current 4,Temperature 5,Fault informations
控制功能 Control functions	1,Programmed power on/off 2,Output power adjustment
冷却系统 Cooling system	Built in Cooling system,forced air cooling

温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature*	-20		+50	°C
存储温度 Non-operating Temperature*	-30		+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
TLPA2G18G-53-53-HS	Power amplifier 2-18GHz, Gain:53dB,Psat:53dBm,+220V AC,built in cooling system	Rev.1.1