

**Model:TLPA15G18G-60-60-BC**
**Solid State High Power Amplifier Systems**  
**15-18 GHz, Gain:60dB, Psat:1000W**  
**(Pulse) ,220V AC**
**Feature:**

- Ultra Wide Band: 15-18 GHz
- Gain: 60 dB Min
- Peak Output Power: 60 dBm Min
- Protection:Over-temp,over-VSWR
- 50 Ohm Matched Input / Output

**电气特性 Electrical:**

参数Parameter	Min.	Typ.	Max.	单位Units
频率范围 Frequency range	15-18			GHz
增益 Power Gain	60			dB
增益平坦度 Gain flatness		±2		dB
峰值功率 Peak Power	60			dBm
峰值功率平坦度 Peak power flatness			±1.5	dB
增益可调范围 Gain adjust range		30		dB
增益可调步进 Gain adjust step		0.5		dB
脉冲宽度 Pulse width	0.1		1000	us
调制频率 Modulation frequency			100	KHz
占空比 Duty circle			20	%
上升沿时间 Rise time		30	50	ns
下降沿时间 Fall time		30	50	ns
脉冲延时 Pulse delay			300	ns
脉冲开关比 Pulse on/off ratio	80			dB
谐波抑制 Harmonics suppression	12	15		dBc
杂散抑制 Spurious suppression	50	60		dBc
输入回拨损 Input Return Loss			-10	dB
输入信号类型 Input signal	CW or synchronous pulse			
交流电压 AC Voltage		220		V AC
功耗 Power dissipation@5%,10%			380/730	W
阻抗 Impedance	50			Ohms

**机械特性 Mechanical :**

参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	N Female /WR-62	
控制接口 Control ports	RS422/LAN/GPIB	
尺寸 Size	19 Inch 5U	
制冷 Cooling	Built-in forced-air cooling system	
重量 Weight	35	Kg

**绝对最大值 Absolute Maximum Ratings:**

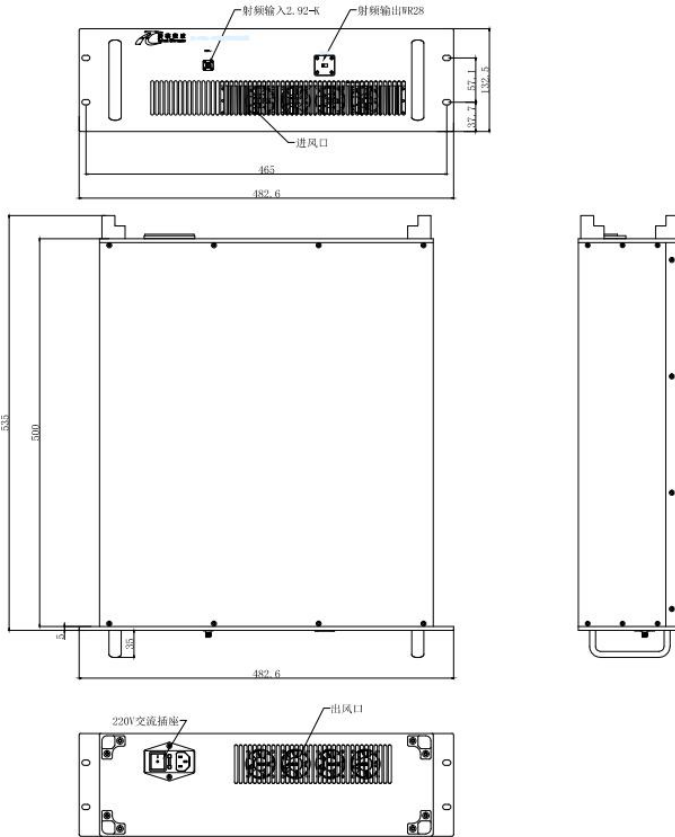
参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	260V AC
输入功率 RF Input Power	
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

**订货信息 Ordering Information:**

标准型号 Part Number	描述 Description	版本号Revision
TLPA15G18G-60-60-BC	Solid State High Power Amplifier Systems 15-18 GHz, Gain:47dB, Psat:1000dBm (Pulse) ,220V AC	Rev.1.1

外形尺寸 Outline Drawing:

Unit: mm



温度环境 Environmental Conditions:

参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-20		+60	°C
存储温度 Non-operating Temperature	-45		+65	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			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			

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