泰莱微波 Talent Microwave

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Solid State High Power Amplifier Systems

6.5-7.2GHz/63dB Gain/63dBm Psat/380V AC Model: TLPA6.5GG7.2G-63-63-BC

TLPA6.5GG7.2G-63-63-BC is a solid state high power amplifier systems provides high output power and high gain across the 6.5 to 7.2 GHz frequency range. The amplifier features a built-in 380V power supply, making it easy to use in most lab environments. This model features thermal self protection, preventing damage to the amplifier and providing added reliability.

Features:

- Frequency range: 6.5-7.2GHz
- Gain: 63dB Min
- Psat Output Power: 63dBm Min
- Protection:Over TEM,over voltage, over current ,over VSWR protection
- 50 Ohm Matched Input / Output

电气特性 Electrical Characteristics:

参数 Parameter	代码 Symbol	Min	Typ	Max	单位 Units
频率范围 Frequency range	BW	6.5		7.2	GHz
工作模式 Working Mode	MOD	CW/PULSE compatible			
功率增益 Power Gain@Pout=63dBm	GP	63			dB
增益调节范围 Gain adjust Range	ΔGR		20		dB
增益调节步进 Gain adjust Step	ΔGS		0.5		dB
饱和输出功率 Output Psat	Psat	63			dBm
杂散 Spurious@Pout=63dBm	Spur			-60	dBc
2nd谐波 2nd Harmonics	HAM			-20	dBc
输入驻波 Input VSWR	VSWR			1.5	:1
交流电压 AC Voltage	Vac		380		V AC
功耗 Power consumption@CW	Pdiss			8000	W
阻抗 Impedance	I/O-IMP		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/WR137	
正向/反向耦合 Forward/Reverse Coupling	SMA Female/SMA Female	
供电接口 DC Supply Connector	XMS3102A18	
通信接口 Communication Connector	DB9	

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机械特性 Mechanical Specifications:

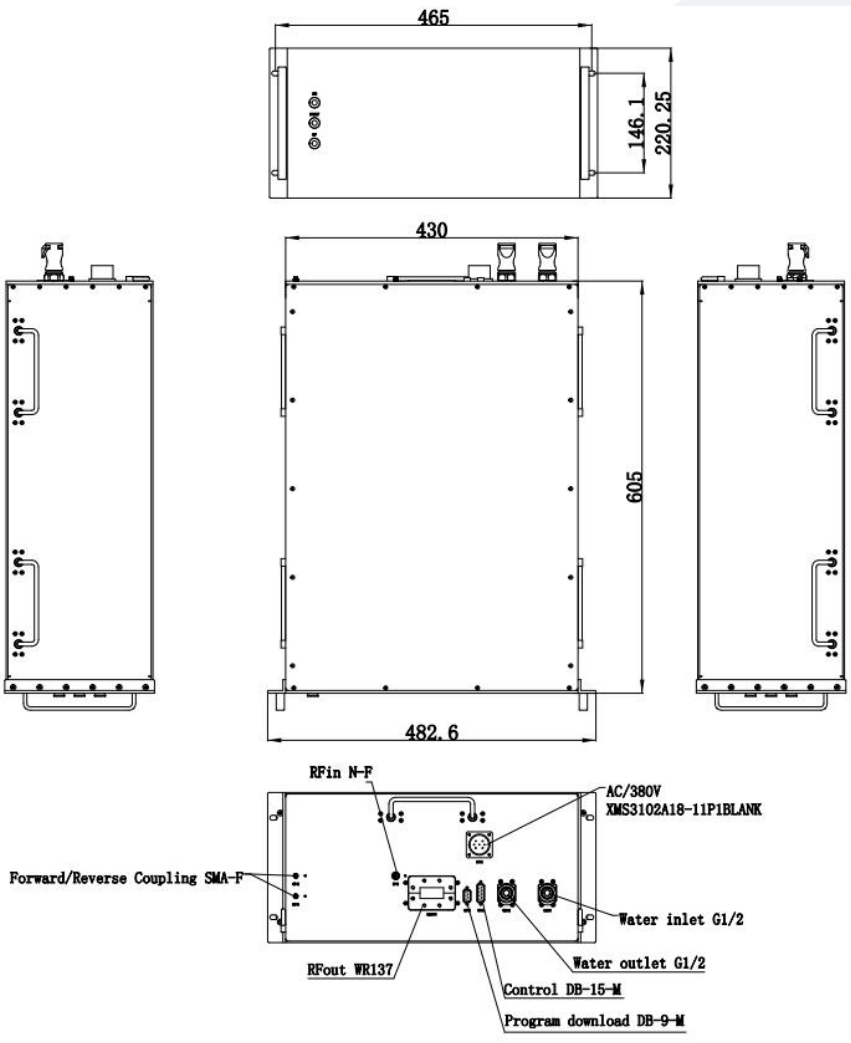
参数 Parameter	指标 Value	单位 Units
液冷接口 Liquid Cooling Connector	G1/2	Refrigerant temperature: 20 - 25℃ Water pressure: ≥ 0.2 MPa Flow rate: ≥ 16 L/min
尺寸 Size	19 Inch 5U*650 depth	mm
重量 Weight	≤60	Kg

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; Tolerance:±0.1mm



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主要功能 Key Features:

参数 Parameter	特点 Advantages
控制功能 Control functions	1, Power setting on/off 2, RF setting on/off 3, ALC automatic level control
内置保护功能 Protection functions	1, Over TEM 2, Over voltage 3, Over current 4, Over VSWR
检测功能 Monitor functions	1, Module temperature 2, Operating voltage 3, Operating current 4, Output/reflected power
监控和控制 Remote control	RS422/Ethernet
冷却系统 Cooling system	Built in Cooling system, liquid cooling

温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature*	-20		+40	℃
存储温度 Non-operating Temperature*	-30		+50	℃
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
TLPA6.5GG7.2G-63-63-BC	Solid State High Power Amplifier Systems 6.5-7.2GHz,Gain:63dB,Psat:63dBm,380V AC, Liquid Cooling	Rev.1.0