Wideband RF Power Amplifier

CRF-PA-6000M18000M-200W

Frequency Range
6,000 – 18,000 MHz

Rated Output Power
200 W

Connector
Input: N-Female
Output: WRD650

Package
Size/Weight
19", 6U/70kg

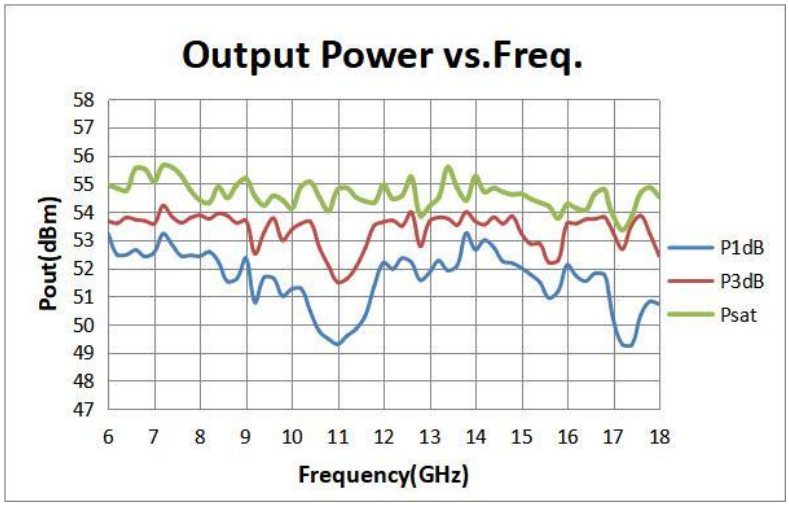
Electrical Characteristics

Test conditions: 50Ω system, unless otherwise specified.

Parameter	Min	Typ	Max	Units
Frequency Range		6,000 – 18,000 MHz		
Gain	53			dB
Gain Flatness	-5		5	dB
Input VSWR			2 : 1	
Input Power			0	dBm
Rated Output Power	200			W
Output P1dB Power	47			dBm
Power Supply		AC 220 V ±10%, 50/60 Hz Connector: 4-pin aviation plug		
Power Consumption			4000	W
Harmonics		-15 / -8		dBc
Spurious			-60	dBc
RF Connectors In/Out		Input: N-Female Output: WRD650		
Coupling Connector		SMA-F		
Control Interface		RS485 / LAN		
Dimensions		19", 6U		
Impedance		50		Ω
Storage Temperature	-20		65	℃
Operating Temperature	0		50	℃
Cooling Method		Forced air cooling		
Application		Test & measurement / communication / interference / aviation control		
Built-in protection		over-voltage, over-current, open/short circuit, over-temperature (Alarm threshold: 75℃), over-drive and VSWR (Alarm threshold: 5:1).		

Product Overview & Typical Characteristics

Front panel view and typical output power (P1dB, P3dB, Psat) over frequency.



Model CRF-PA-6000M18000M-200W	**Package Size** 19", 6U	**Weight** 70kg
Connector Reference RF IN: N-Female RF OUT: WRD650 Control: RS485 / LAN	**Power / Cooling** Supply: AC 220 V ±10%, 50/60 Hz Cooling: Forced air cooling	**Release Note** Mechanical drawing is provided for installation reference. Final dimensions are subject to the production unit.

Applications **Test & measurement / communication / interference / aviation control**	**Customization** **Optional forward/reverse power monitoring, external directional coupler are available.**

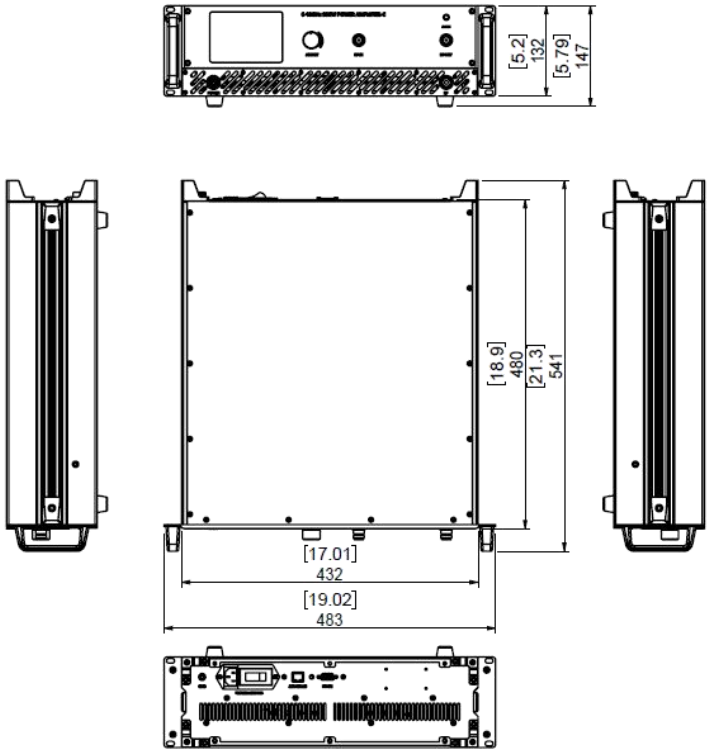
Compliance / Quality Framework

RoHS Compliant	CE / FCC	ISO 9001	GJB 9001C

Test data and pattern files can be supplied for project review where applicable.

Mechanical Outline

Complete outline drawing shown below for clear integration reference.



Gain & VSWR Characteristics

Power gain and input VSWR versus frequency.