Wideband RF Power Amplifier

CRF-PA-18G26.5G-50W

Frequency Range
18 – 26.5 GHz

Rated Output Power
50 W

Connector
Input: 2.92mm-F
Output: WR42

Package Size
478 x 432 x 132 mm

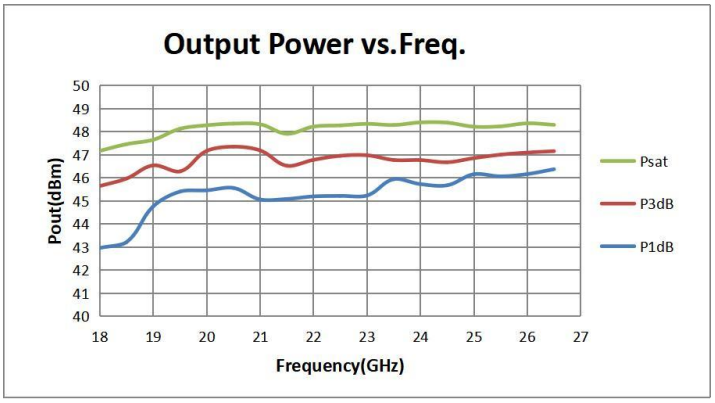
Electrical Characteristics

Test conditions: 50Ω system, unless otherwise specified.

Parameter	Min	Typ	Max	Units
Frequency Range		18 – 26.5 GHz		
Gain	47			dB
Output P1 Power	20			W
Gain Flatness			±5	dB
Input VSWR			2 : 1	
Input Power			0	dBm
Rated Output Power	50			W
Power Supply		220×(1 ±10%)VAC		
Power Consumption			600	W
Harmonics			-20	dBc
Spurious			-60	dBc
RF Connectors In/Out		Input: 2.92mm-F Output: WR42		
Coupling Connector		2.92mm-F		
Control Interface		Ethernet / GPIB		
Dimensions		478 x 432 x 132 mm		
Impedance		50		Ω
Storage Temperature	-15		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: 4:1).		

Appearance and Typical Performance

Front panel layout and typical saturated output power (Psat) characteristics.



Model	Package Size	Weight
CRF-PA-18G26.5G-50W	478 x 432 x 132 mm	≤15kg
Connector Reference RF IN: 2.92mm-F RF OUT: WR42 Control: Ethernet / GPIB	**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	Customization
Test & measurement / communication / interference / aviation control	**Optional built-in or external bidirectional coupler is available.**

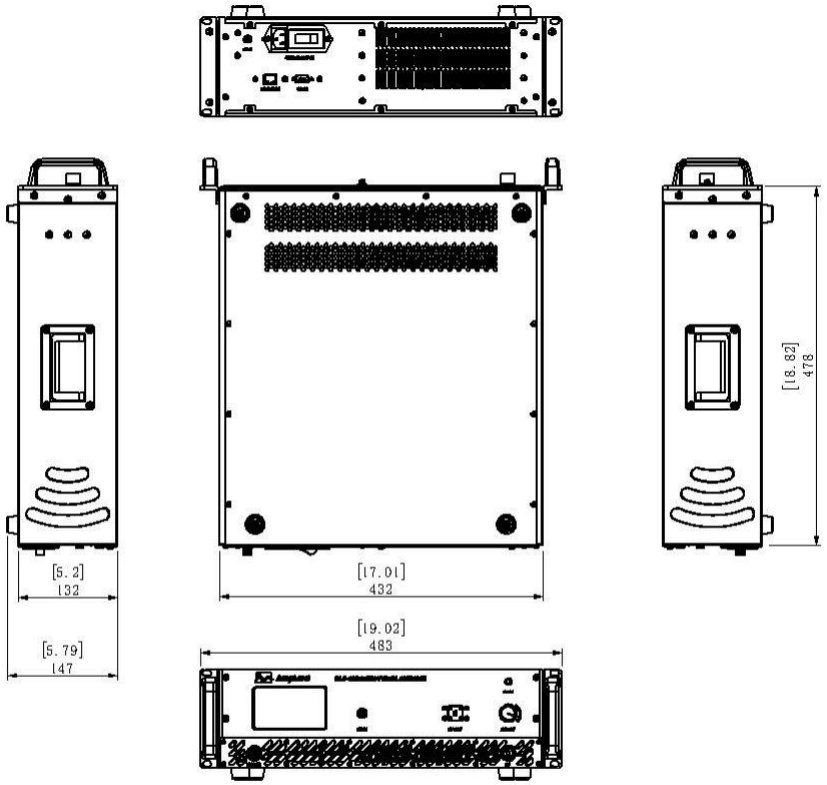
Compliance / Quality Framework

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.