Wideband RF Power Amplifier System **CRF-PA-20M1000M-100W**	Frequency Range 20–1000MHz Rated Output Power 100 W	Connector Input: 2.92mm-F Output: N-F Package Size/Weight 520x483x132mm/15.5kg

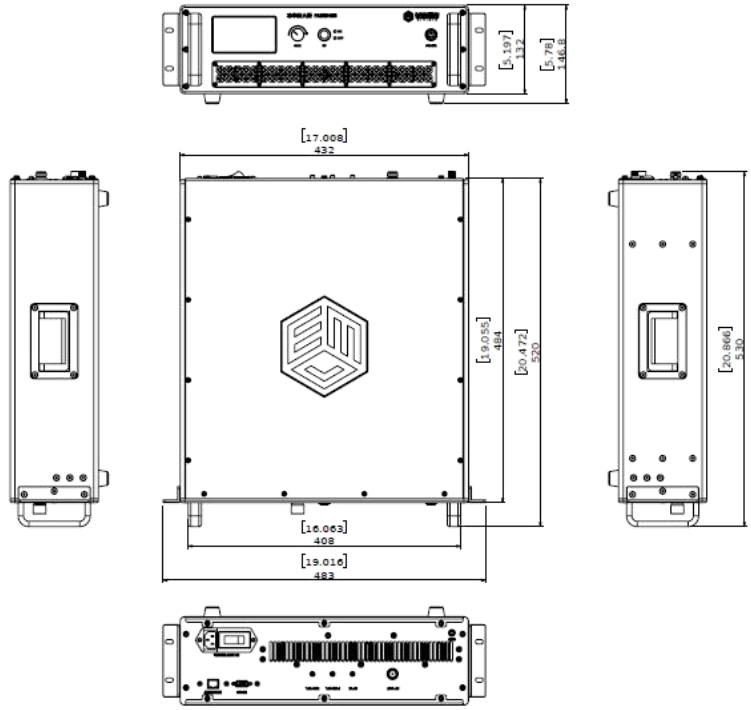
Electrical Characteristics

Test conditions: 50Ω system, unless otherwise specified.

Parameter	Min	Typ	Max	Units
Frequency Range		20 – 1,000 MHz		
Gain	50			dB
Gain Flatness	-4		4	dB
Input VSWR			2	
Input power			0	dBm
Rated Output Power	100			W
Power Supply	90	220	240	V
Harmonics			-10	dBc
Spurious			-60	dBc
RF Connectors In/Out		Input: 2.92mm-F Output: N-F		
Control Interface		RS485		
Dimensions		520x483x132		mm
Impedance		50		Ω
Operating Temperature	0		50	℃
Storage Temperature	-25		70	℃
Cooling Method		External heatsink with forced-air cooling		
Gain Control Range		20		dB
Application		Test & measurement / communication / interference / aviation control		
Built-in protection		over-voltage, over-temperature, over-drive and VSWR. Design based on advanced GaN technology.		

Mechanical Outline

Complete outline drawing shown below for clear integration reference.



Model	Package Size	Weight
CRF-PA-20M1000M-100W	520x483x132 mm	15.5kg
Connector Reference RF IN: 2.92mm-F RF OUT: N-Female Control: RS485	**Power / Cooling** Supply: AC 90-240V (Typ 220V) Cooling: External heatsink with 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 coupler is available.

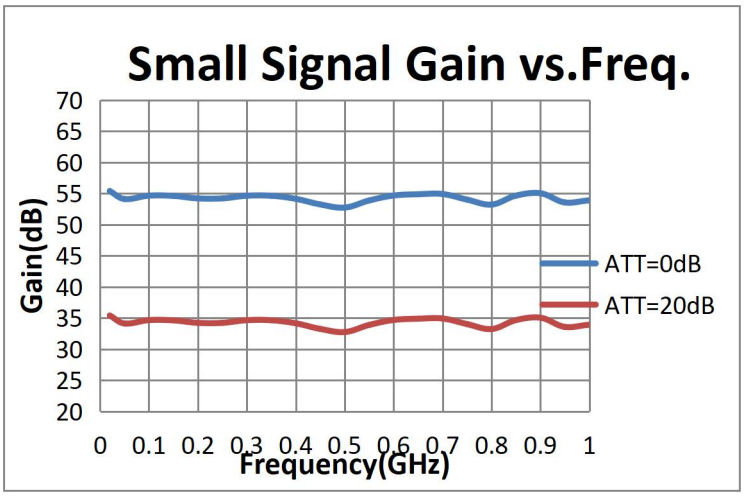
Compliance / Quality Framework

RoHS Compliant	CE / FCC	ISO 9001	GJB 9001C

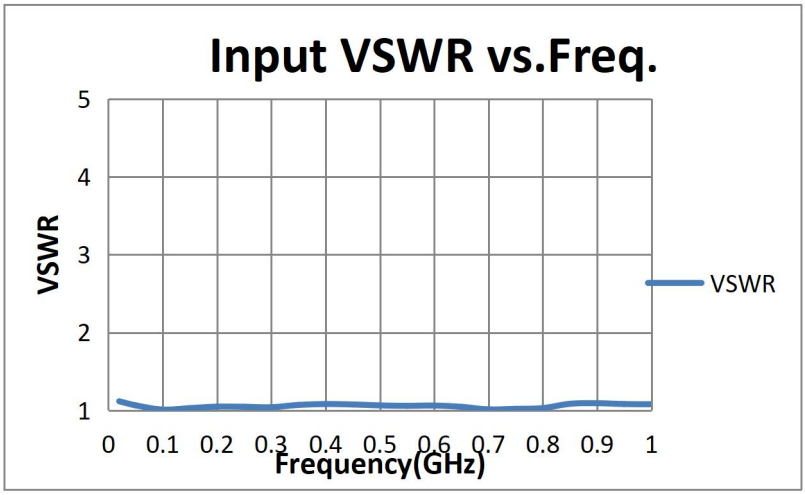
Test data and pattern files can be supplied for project review where applicable.

Typical Performance Plots

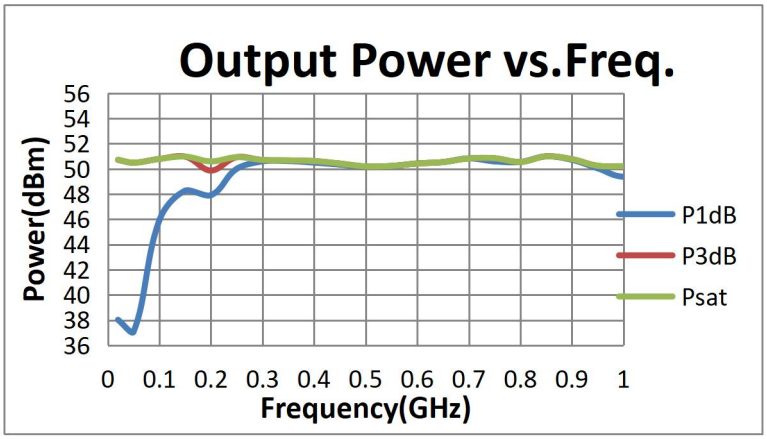
Small Signal Gain at 25°C



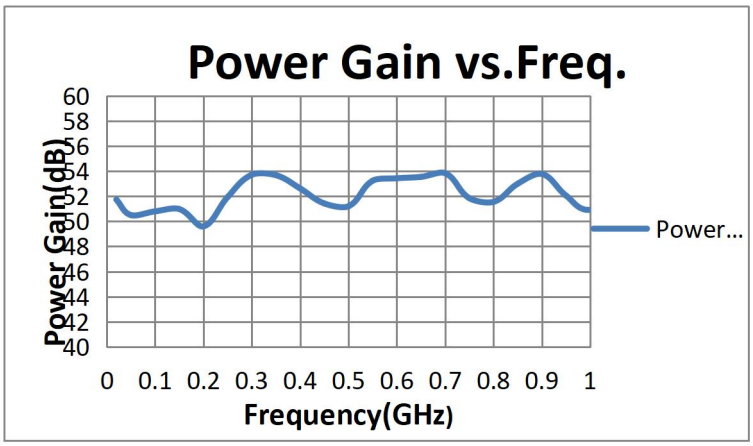
Input VSWR at 25°C



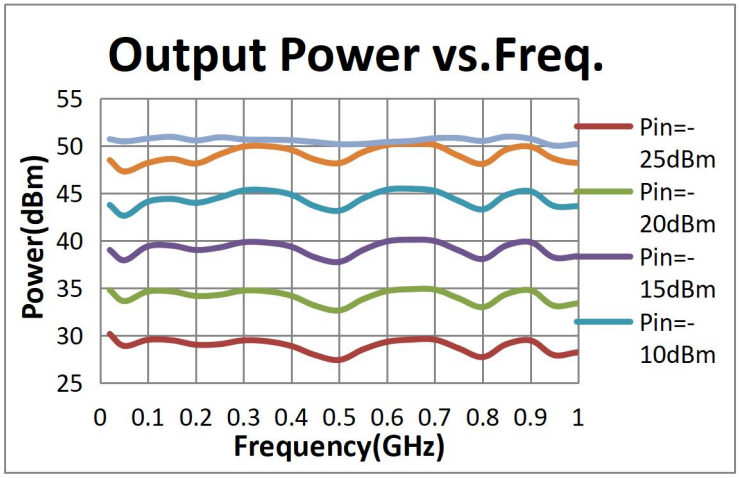
P1dB, P3dB and Psat Output Power



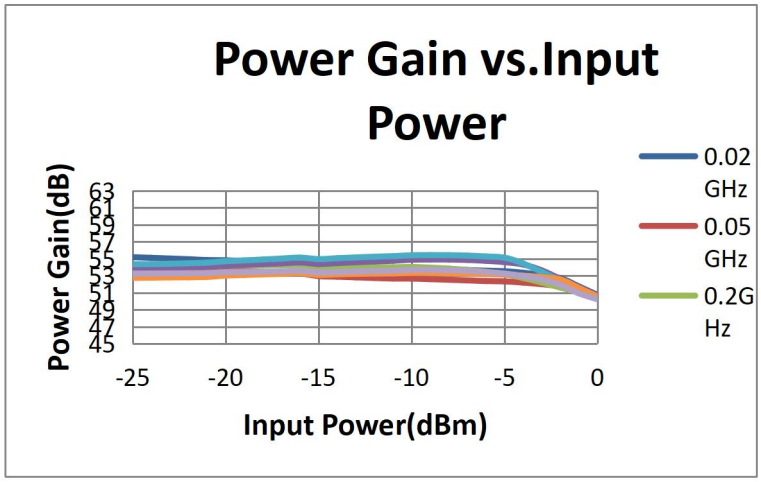
Power Gain (at Pout=Psat)



Output Power vs. Frequency at Various Input Levels



Gain Compression Curves



Typical Performance Plots

Output Power vs. Gain