Wideband RF Power Amplifier

CRF-PA-2G6G-50W

Frequency Range	Supply Voltage
2,000 - 6,000 MHz	36 · 46 VDC
Output Power	**Package Size**
50 W	125 × 59 × 21.5 mm

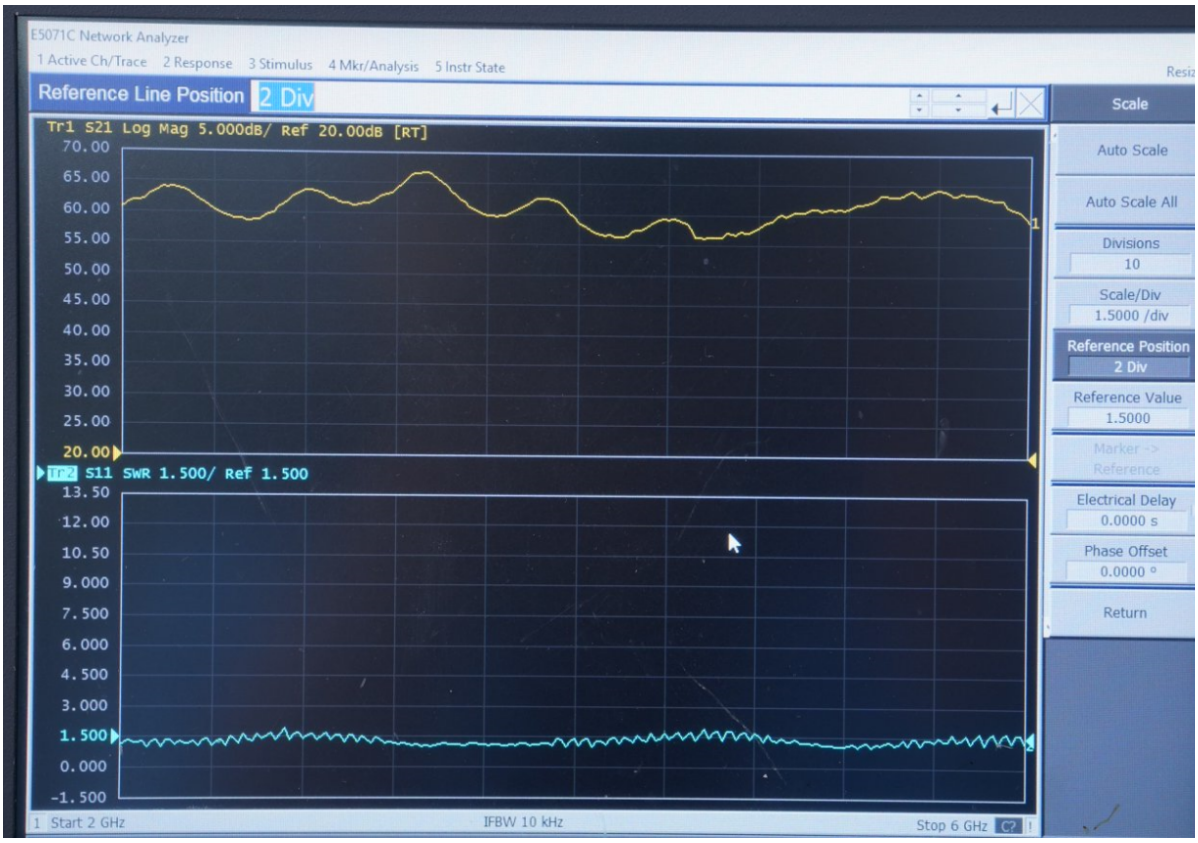
Electrical Characteristics

Test conditions: T_case = 25°C, V_supply per model, 50Ω system, unless otherwise specified.

Parameter	Min	Typ	Max	Units
Frequency Range		2,000 – 6,000 MHz		
Output Power	50	50		W
Gain	46	47	48	dB
Gain Flatness			≤ 1.8	dB
Input Drive for Rated Output	-1		6	dBm
Harmonics		-12	≤ -10	dBc
Spurious			≤ -60	dBc
Input VSWR		1.3	≤ 1.8	:1
Output VSWR		1.5	≤ 2.0	:1
Supply Voltage	40	58		VDC
Current Consumption			≤ 12	A
Cooling Method		Air Cooling		
Output Power Type		CW / Saturated		
RF Input Connector		SMA-Female		
RF Output Connector		N-Female		
Operating Temperature	-40		+85	°C
Storage Temperature	-40		+85	°C
Dimensions		200 × 158 × 25 mm		
Weight			≤ 1.4	kg

Typical Performance Curve

Representative swept measurement of gain (S21) and input match / SWR (S11) versus frequency for the corresponding model.



Curve note: Tr1 corresponds to gain (S21, dB). Tr2 corresponds to input match / SWR (S11). Original uploaded instrument screenshot retained.

Applications RF testing / communication / system integration	Customization Custom frequency bands, connectors, control interfaces and integration details are available. CorelixRF engineering team can provide feasibility reviews within 48 hours.

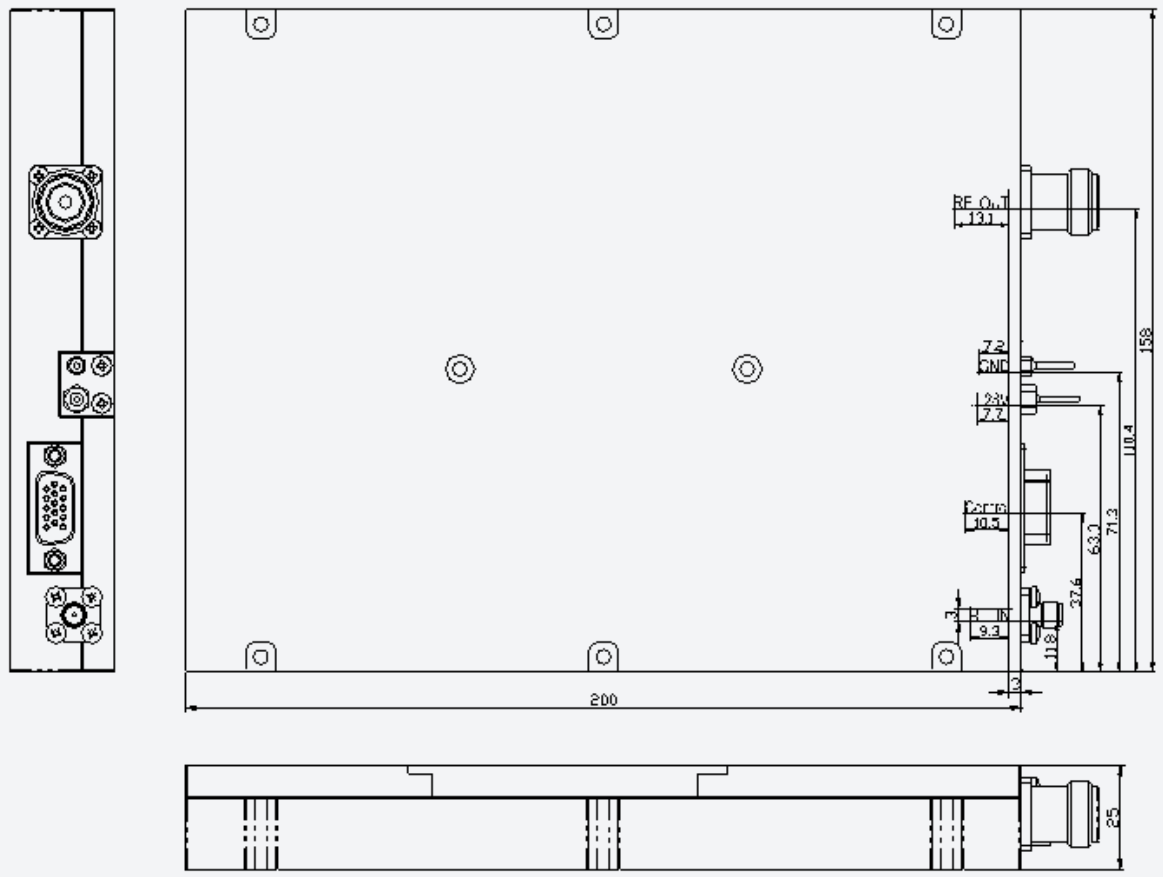
Compliance / Quality Framework

RoHS Compliant	**CE / FCC**	**ISO 9001**	**GJB 9001C**

MTBF: Reliability data available on request. Environmental and validation data can be supplied for project review where applicable.

Mechanical Outline

Complete outline drawing shown below for clear integration reference.



Model	Package Size	Weight
CRF-PA-2G6G-50W	200 × 158 × 25 mm	≤ 1.4 kg
Connector Reference RF IN: SMA-KFD46 RF OUT: N-Female Control: DB9	**Power Supply** 40 - 58 VDC Current Consumption ≤ 12 A	**Release Note** Mechanical drawing is kept fully visible for easier dimensional review and connector location confirmation.