

Wideband RF Power Amplifier

CRF-PA-30M512M-100WFrequency Range
30 - 512 MHzRated Output Power
100 WSupply Voltage
28 VDCPackage Size
200 × 158 × 25 mm

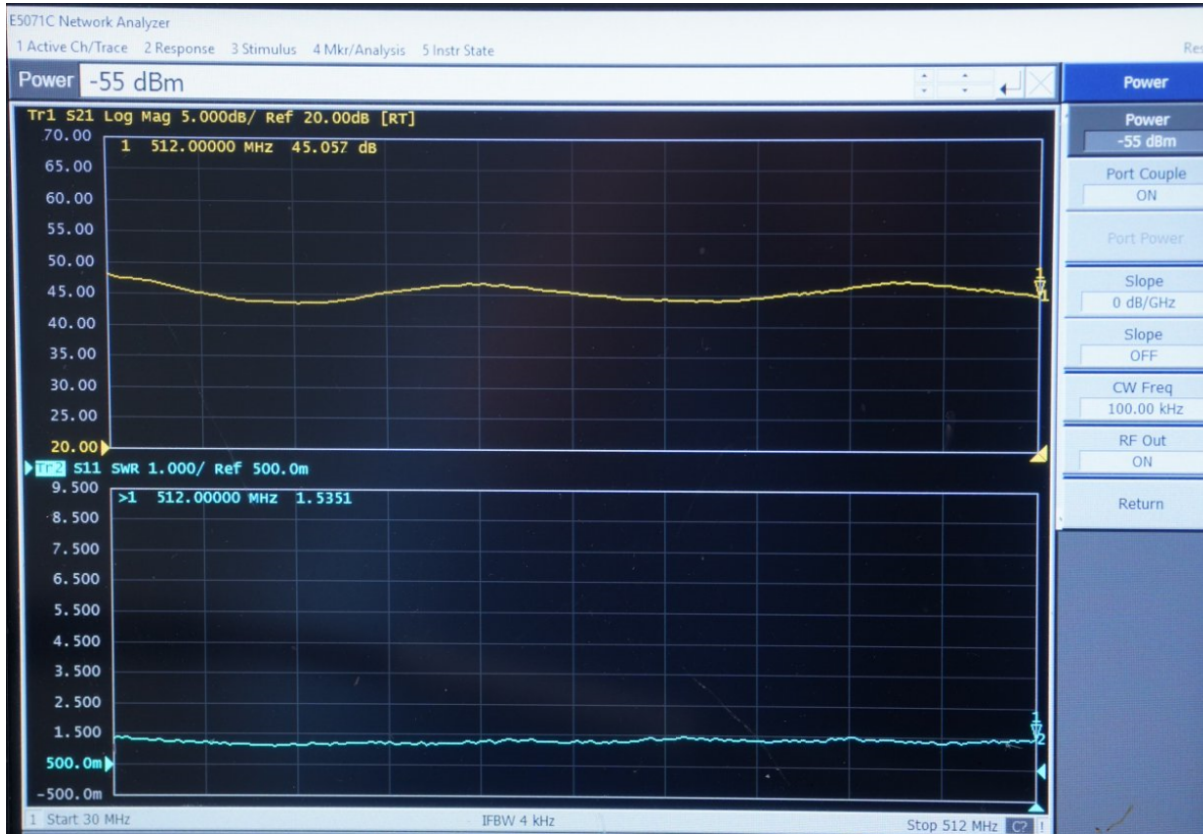
Electrical Characteristics

Test conditions: T_{case} = 25°C, V_{supply} per model, 50Ω system, unless otherwise specified.

Parameter	Min	Typ	Max	Units
Frequency Range		30 - 512 MHz		
Output Power	100	100		W
Gain	49	50	51	dB
Gain Flatness			≤ 1.8	dB
Input Drive for Rated Output	0		8	dBm
Harmonics		-12	≤ -10	dBc
Spurious			≤ -60	dBc
Input VSWR		1.3	≤ 1.8	:1
Output VSWR		1.5	≤ 2.0	:1
Supply Voltage		28		VDC
Current Consumption			≤ 18	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.

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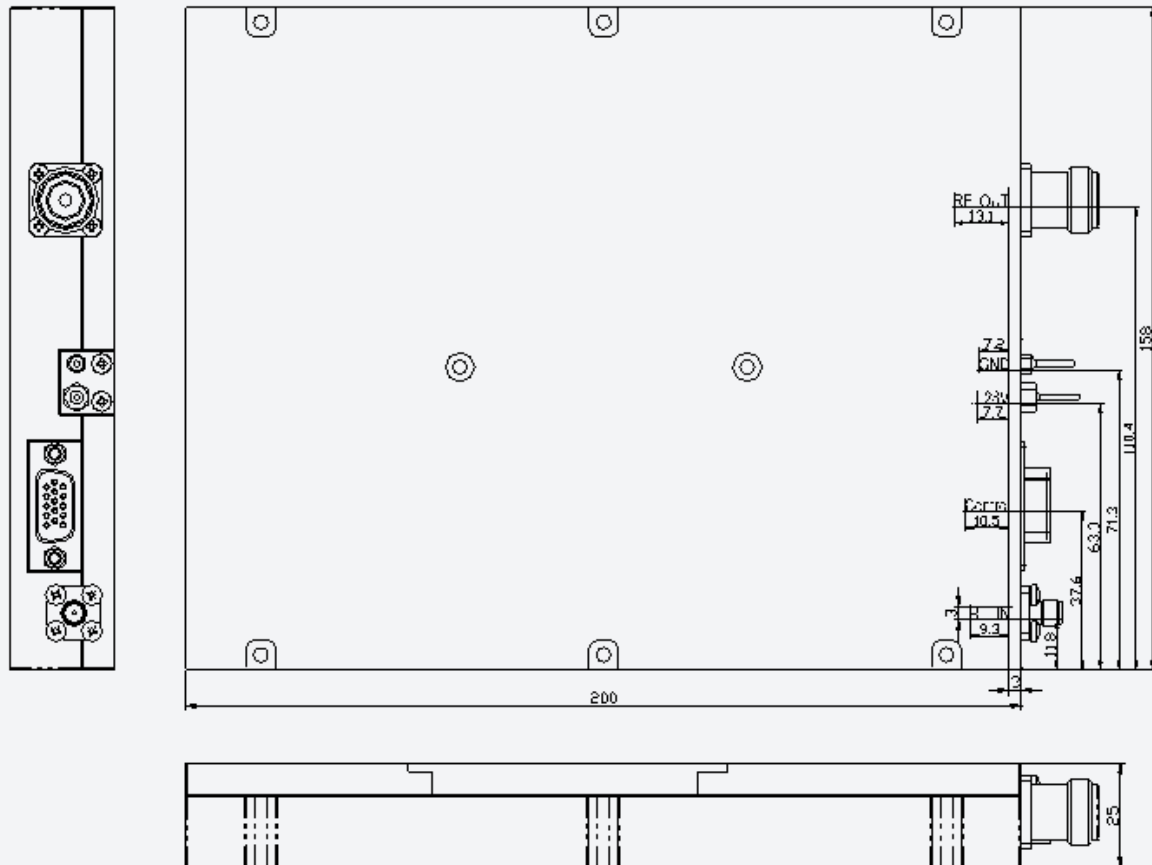
Compliance / Quality Framework

<p>RoHS Compliant</p>	<p>CE / FCC</p>	<p>ISO 9001</p>	<p>GJB 9001C</p>
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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.



<p>Model CRF-PA-30M512M-100W</p>	<p>Package Size 200 x 158 x 25 mm</p>	<p>Weight ≤ 1.4 kg</p>
<p>Connector Reference RF IN: SMA-KFD46 RF OUT: N-Female Control: DB9</p>	<p>Power Supply 28 VDC Current Consumption ≤ 18 A</p>	<p>Release Note Mechanical drawing is kept fully visible for easier dimensional review and connector location confirmation.</p>