

Wideband RF Power Amplifier

CRF-PA-30M512M-30WFrequency Range
30 - 512 MHzRated Output Power
30 WSupply Voltage
28 VDCPackage Size
125 × 59 × 21.5 mm

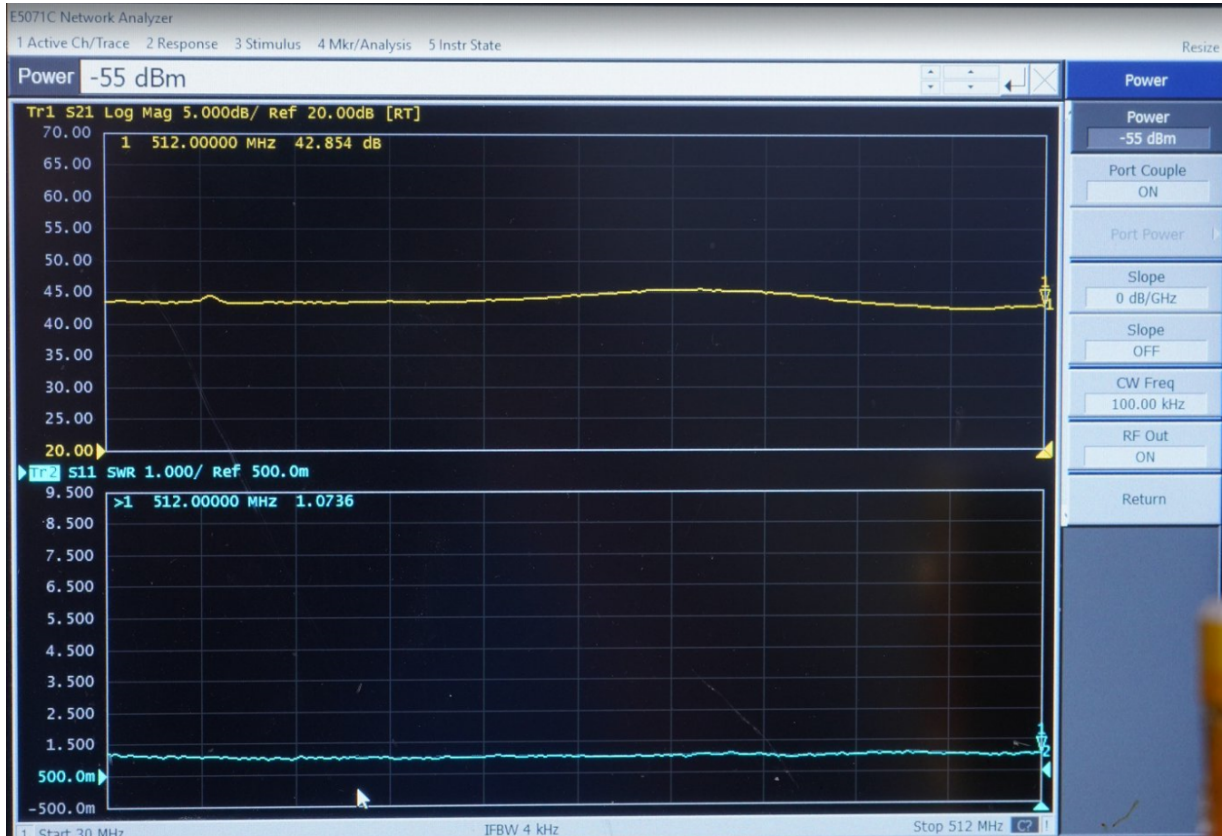
Electrical Characteristics

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

Parameter	Min	Typ	Max	Units
Frequency Range		30 - 512 MHz		
Output Power	30	30		W
Gain	44	45	46	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			≤ 4	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		125 × 59 × 21.5 mm		
Weight			≤ 0.5	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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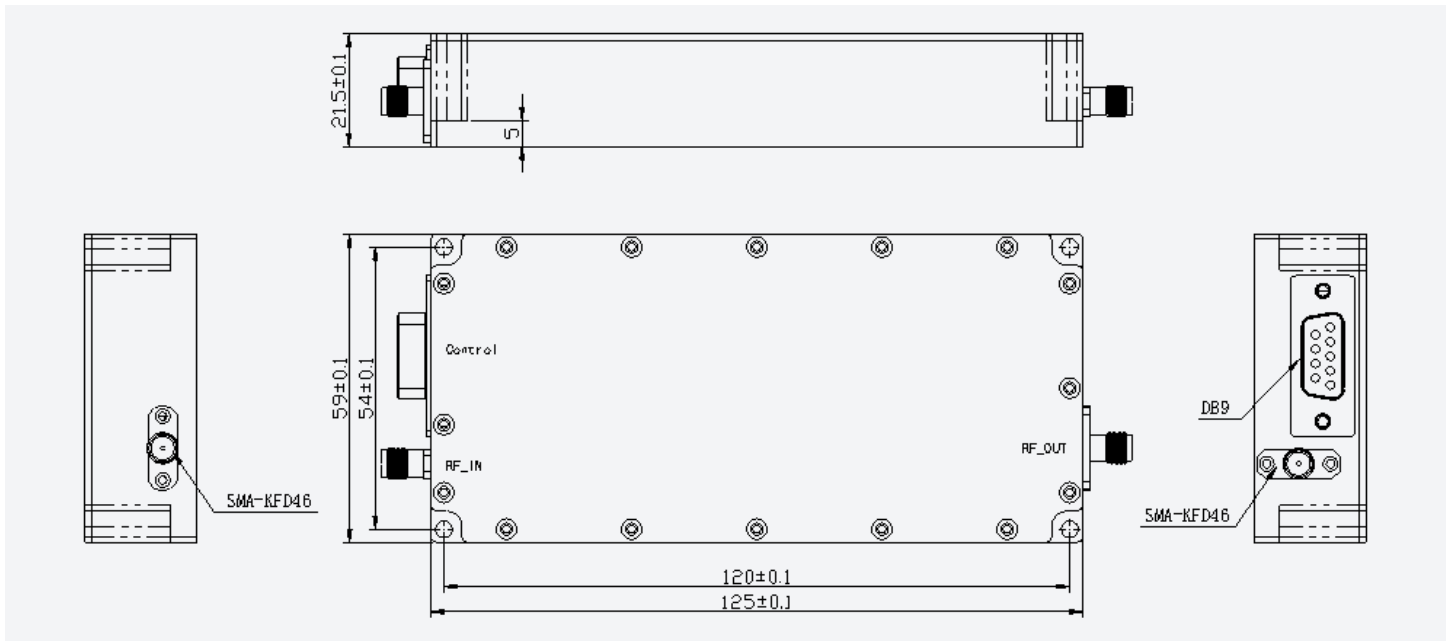
Compliance / Quality Framework

RoHS Compliant	CE / FCC	ISO 9001	GJB 9001C
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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.



Model CRF-PA-30M512M-30W	Package Size 125 x 59 x 21.5 mm	Weight ≤ 0.5 kg
Connector Reference RF IN: SMA-KFD46 RF OUT: N-Female Control: DB9	Power Supply 28 VDC Current Consumption ≤ 4 A	Release Note Mechanical drawing is kept fully visible for easier dimensional review and connector location confirmation.