

Wideband RF Power Amplifier <b>CRF-PA-300M1700M-100W</b>	Frequency Range 300 - 1,700 MHz	Supply Voltage 28 VDC
	Rated Output Power 100 W	Package Size 200 × 158 × 25 mm

## Electrical Characteristics

Test conditions: T<sub>case</sub> = 25°C, V<sub>supply</sub> per model, 50Ω system, unless otherwise specified.

Parameter	Min	Typ	Max	Units
Frequency Range		300 - 1,700 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			≤ 14	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><b>Applications</b></p> <p>RF testing / communication / system integration</p>	<p><b>Customization</b></p> <p>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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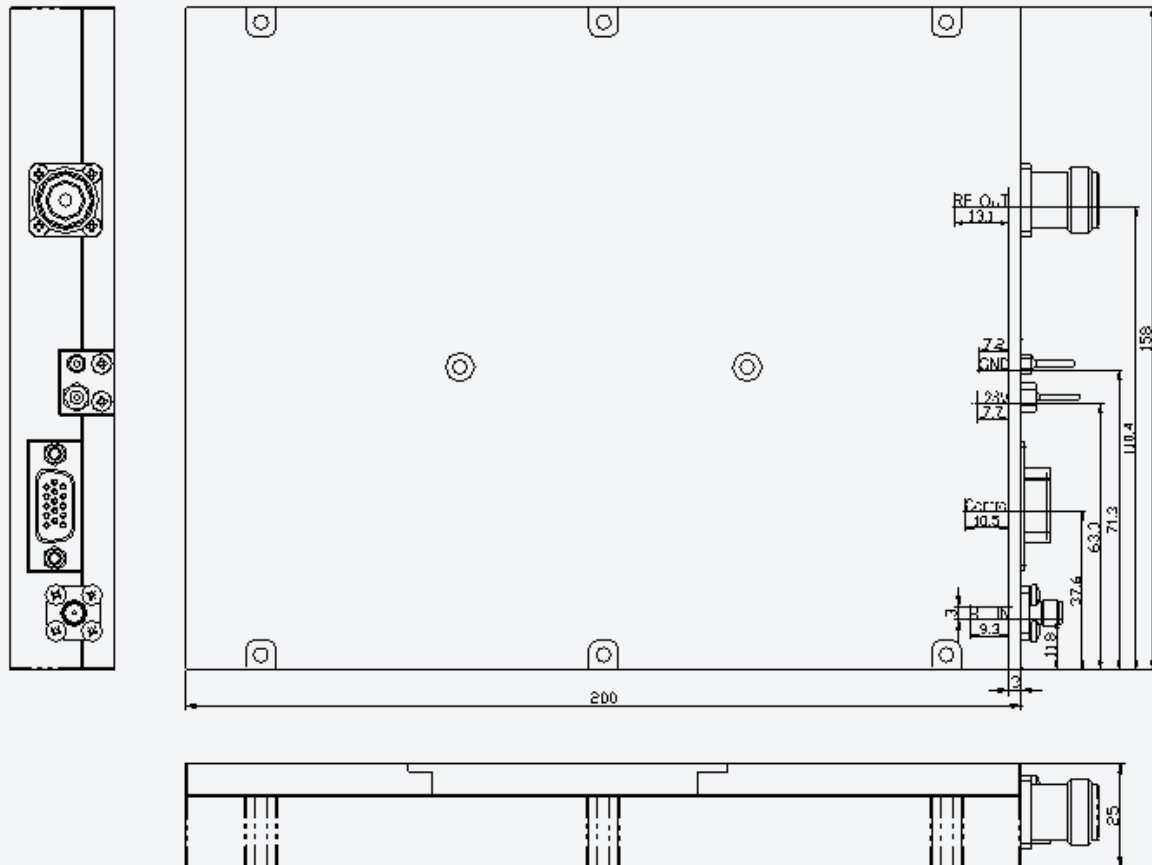
### Compliance / Quality Framework

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.



<p><b>Model</b> CRF-PA-300M1700M-100W</p>	<p><b>Package Size</b> 200 x 158 x 25 mm</p>	<p><b>Weight</b> ≤ 1.4 kg</p>
<p><b>Connector Reference</b> RF IN: SMA-KFD46 RF OUT: N-Female Control: DB9</p>	<p><b>Power Supply</b> 28 VDC Current Consumption ≤ 14 A</p>	<p><b>Release Note</b> Mechanical drawing is kept fully visible for easier dimensional review and connector location confirmation.</p>