

Narrowband RF Power Amplifier <b>CRF-PA-400M440M-50W</b>	Frequency Range 400 – 440 MHz	Connector SMA-KFD46
	Rated Output Power 50 W	Package Size 125 × 59 × 21.5 mm

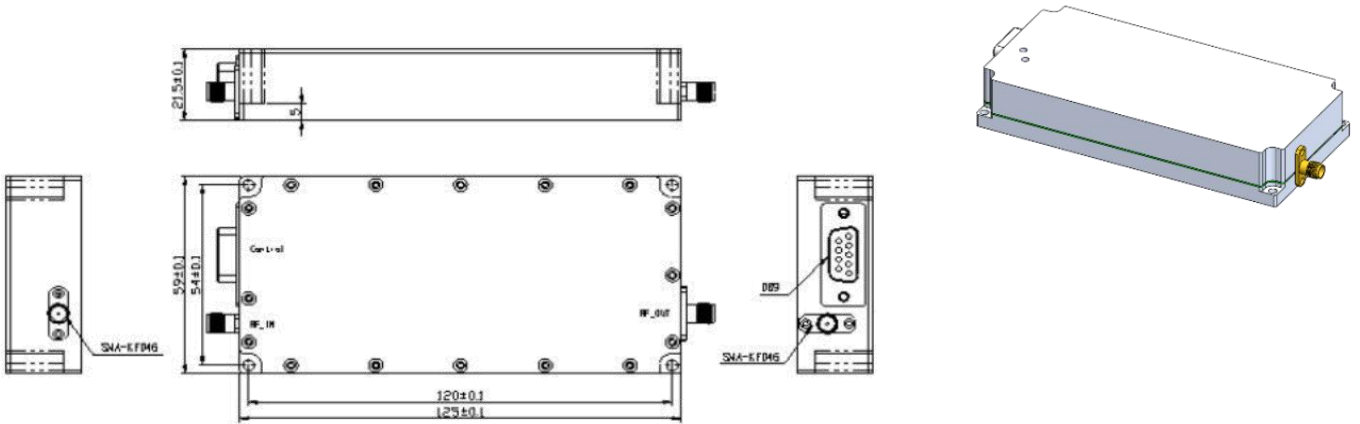
## Electrical Characteristics

Test conditions: 50Ω system, unless otherwise specified.

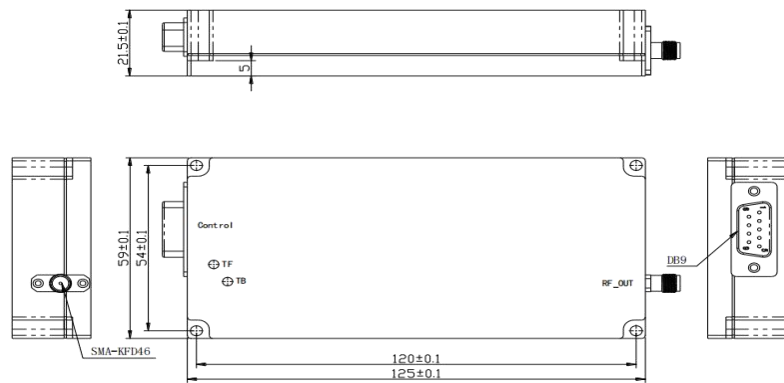
Parameter	Min	Typ	Max	Units	Model
Frequency Range		400 – 440 MHz			
Gain	43	45	47	dB	CRF-PA-400M440M-50W-M
Frequency Stepping		10		Hz	CRF-PA-400M440M-50W-V
Frequency Adjustment Range	380		480	MHz	CRF-PA-400M440M-50W-V
Bandwidth Adjustment Range		20	80	MHz	CRF-PA-400M440M-50W-V
Input VSWR			1.5		CRF-PA-400M440M-50W-M
Output Power (Psat)	40	50		W	
Supply Voltage	24	28	32	V	
Operating Current		5	6	A	
PA Enable/Disable Time			100	μs	
RF Connectors In/Out		Input: SMA-KFD46 Output: SMA-KFD46			Input: (M Version Only) Output: (V/M Version)
Dimensions		125 × 59 × 21.5 mm			
Weight			0.5	kg	
Operating Temperature	-40		+60	°C	
Storage Temperature	-55		+85	°C	
Cooling		External Heat Sink			
Application		RF testing / communication interference / system integration			
Notes		Over-temperature shutdown > 80°C ± 5°C; automatic recovery < 70°C ± 5°C			

## Mechanical Outline

Complete outline drawing shown below for clear integration reference.



**CRF-PA-400M440M-50W-M Outline Drawing**



**CRF-PA-400M440M-50W-V Outline**

<p><b>Model</b> CRF-PA-400M440M-50W</p>	<p><b>Package Size</b> 125 × 59 × 21.5 mm</p>	<p><b>Weight</b> ≤ 0.5 kg</p>
<p><b>Connector Reference</b> RF IN: SMA-KFD46 (M Version Only) RF OUT: SMA-KFD46 (V/M Version) Control: D-Sub 9-Pin Female</p>	<p><b>Power / Cooling</b> Supply: 24–32 V (28 V nominal) Cooling: External Heat Sink</p>	<p><b>Release Note</b> Mechanical drawing is kept visible for easier dimensional review and connector location confirmation.</p>

<p><b>Applications</b> RF testing / communication interference / system integration</p>	<p><b>Customization</b> 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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## DC / Control Interface

PIN#	Description	Specification
1	VDD	Supply Voltage: +24V~32V, +28V Nominal
2	VDD	Supply Voltage: +24V~32V, +28V Nominal
3	VDD	Supply Voltage: +24V~32V, +28V Nominal
4	VDD	Supply Voltage: +24V~32V, +28V Nominal
5	GND	Ground Return
6	GND	Ground Return
7	GND	Ground Return
8	PA_EN	PA on: 0V or Floating PA off: Input 3.3V or 5V
9	Not Used	No Connection

### Compliance / Quality Framework

RoHS Compliant	CE / FCC	ISO 9001	GJB 9001C
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Test data and pattern files can be supplied for project review where applicable.