

Narrowband RF Power Amplifier CRF-PA-5725M5850M-50W	Frequency Range 5725–5850 MHz	Connector SMA–KFD46
	Rated Output Power 50 W	Package Size 125 × 59 × 21.5 mm

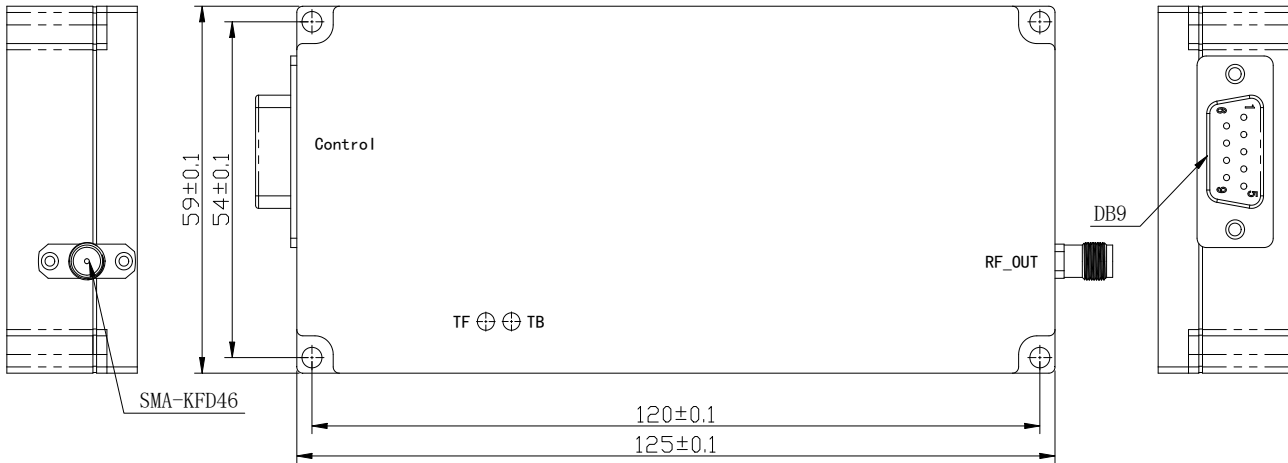
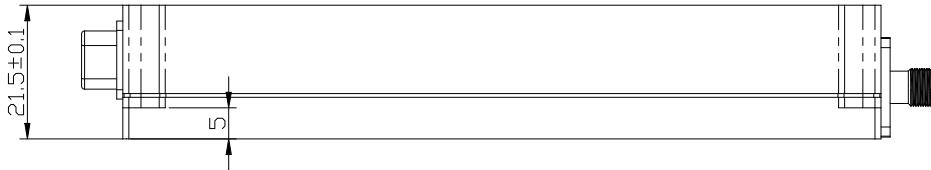
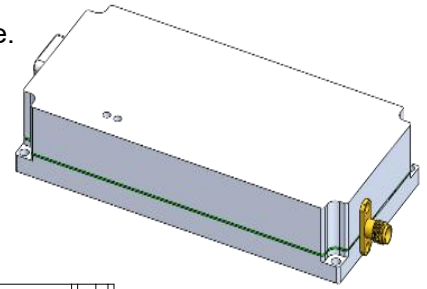
Electrical Characteristics

Test conditions: 50Ω system, unless otherwise specified.

Parameter	Min	Typ	Max	Units	Model
Frequency Range	5725		5850	MHz	
Frequency Stepping	10			Hz	Internal VCO frequency source
Frequency Adjustment Range	5650		5900	MHz	
Bandwidth Adjustment Range	100		300	MHz	
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		Output: SMA–KFD46			Internal VCO frequency source
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.



<p>Model CRF-PA-5725M5850M-50W</p>	<p>Package Size 125 × 59 × 21.5 mm</p>	<p>Weight ≤ 0.5 kg</p>
<p>Connector Reference RF IN: SMA-KFD46 (M Version Only) RF OUT: SMA-KFD46 (V/M Version) Control: D-Sub 9-Pin Female</p>	<p>Power / Cooling Supply: 24–32 V (28 V nominal) Cooling: External Heat Sink</p>	<p>Release Note Mechanical drawing is kept visible for easier dimensional review and connector location confirmation.</p>

<p>Applications RF testing / communication interference / 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>
---	---

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
----------------	----------	----------	-----------

Test data and pattern files can be supplied for project review where applicable.