jjPlus

WIRELESS POWER MODULE



CMR003C

3W Magnetic Resonant Wireless Power Receiver Module

CMR003C, is a 3W wireless power receiver module using magnetic resonant wireless power technology. Thanks to its high frequency nature, it can output up to 3W (5V/0.6A) at every point within the wide power area of CMT003B wireless power transmitter. Therefore, multiple of CMR003C wireless power receivers, usually two, can be powered simultaneously by CMT003B. It makes it quite suitable for applications like smart shoes and gaming pads which need drop-and-go user experience for charging.

Key Features:

- Up to 3W output power with 6.78MHz magnetic resonant wireless power technology
- Small coil size (40mm x 40mm)
- Small board size (20mm x 20mm)
- Able to be charged within wide power area with Z height spatial freedom up to 30mm on CMT003B wireless power transmitter
- 85%+ Receiver efficiency
- Operating Temperature: 0°C~+50°C
- FCC part.18 pre-certification passed

Specification:

Coil Type	PCB type	
	CMR003C Coil Board: 40 mm (I) x 40 mm (w) x 1 mm (h)	
Dimension	CMR003C Control Board: 20 mm (l) x 20 mm (w) x 3.9 mm (h)	
Power Distance (Z)	10mm ~ 30mm (On CMT003B)	
Power coil Area (X & Y)	40 mm (l) x 40 mm (w)	
Output Power	Up to 3 W (5V/0.6A)	
Power Input Interface	Wireless Power coil (40mm x 40mm)	

Copyright © jjPlus CORP. All Rights Reserved. jjPlus may make changes to specification and descriptions at any time without prior notice.



Electrical Specification: Test with CMT003B @ 20 mm Z-height

Characteristics	Condition	Min.	Тур.	Max.	Units
Output Voltage	Normal Voltage Mode	4.5	5	5.5	Volts
Output Current	Offset x = 0cm, y = 0cm, z = 20mm		0.6		Amp
	Offset x ± 4.5cm, y ± 1.5cm, z = 20mm		0.6		Amp
	Offset x ± 9cm, y ± 1.5cm, z =20mm		0.6		Amp
Output Power	P, offset x = 0cm, y = 0cm, z = 20mm		3		Watt
	P, offset x ± 3cm, y ± 1.5cm, z = 20mm		3		Watt
	P, offset x ± 6cm, y ± 1.5cm, z = 20mm		3		Watt
	P, offset x ± 9cm, y ± 1.5cm, z = 20mm		3		Watt
Receiver Efficiency @ 3.0W			85		%
Operating Temperature		0		50	°C
Surface Temperature				80	°C
Storage Temperature		-40		70	°C

Environmental Specification:

• Operating Condition:

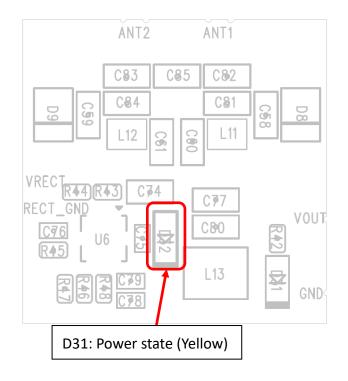
Temperature range:	0°C ~+50°C
Humidity:	10% ~ 90 %

• Storage Condition:

Temperature range:	-20°C ∼+70°C
Humidity:	10% ~ 90 %

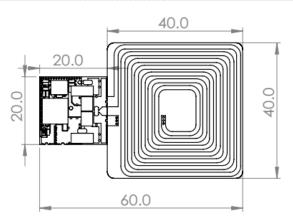


LED indicator: CMR003C PRU



Mechanical Specification:

Coil board Dimension	40 mm (l) x 40 mm (w) x 1 mm (h)
Control board Dimension	20 mm (I) x 20 mm (w) x 3.9 mm (h)





Copyright © jjPlus CORP. All Rights Reserved. jjPlus may make changes to specification and descriptions at any time without prior notice.

jPlus CORP. www.jjplus.com +886 2 2248-5700 sales@jjplus.com Model: CMR003C