15-20W Wireless Charging Receiver Coil

AWCCA-RX514012-F003

Features

- Ideal for 15-20W applications
- Dimensions: 51.0 x 40.0 x 1.2mm
- Compact and very thin design
- High permeability shielding to protect sensitive electronics
- Very high-power density
- Low DCR

Applications

- Batteries and battery chargers
- Charging accessories and fast chargers

(Pb)

- Portable electronics
- Roamable electronics
- Drones and robotics
- IoT and industrial IoT
- Power tools
- AR / VR
- Wearables

Maximum Ratings

Item	Value
Operating Temperature Range	T = -25°C ~ 85°C, RH 65±20%
Storage Temperature Range	T = -40°C~85°C, RH 65±20%

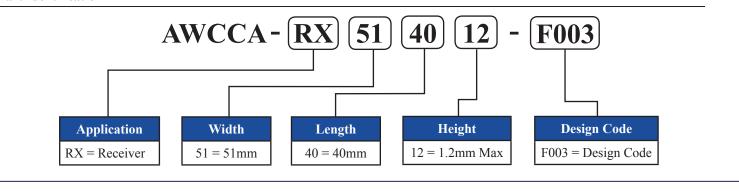
Electrical Specifications

Part Number	Inductance	DC Resistance	Q	
AWCCA-RX514012-F003	8.5µH±10%	160mΩ Max	25 Тур	
Test Condition	100KHz / 1V	100KHz / 1V	125KHz/1V	
Test Environment	Temperature: 20±10°C, RH: 65% ±20%. Equipment: LCZ METER 1062B, LCZ METER 502			

Test Conditions

Ambient Temperature: $20\pm15^{\circ}$ C, RH: $65\%\pm20\%$. If any doubt on the results, measurements/tests should be made within the following limits: Ambient Temperature: $25\pm5^{\circ}$ C, RH: $75\%\pm10\%$

Part Identification





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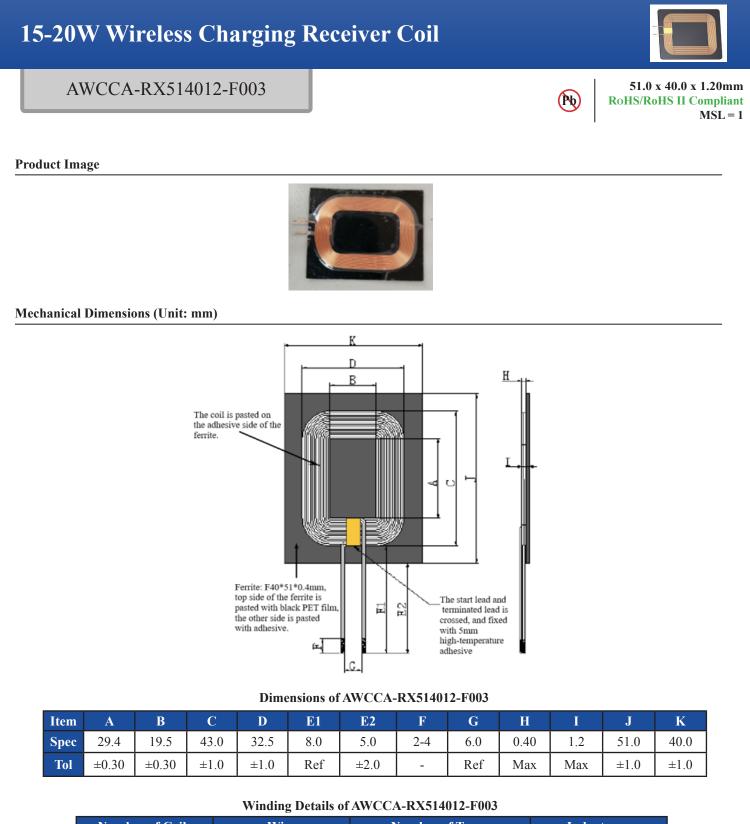
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51.0 x 40.0 x 1.20mm

MSL = 1

RoHS/RoHS II Compliant



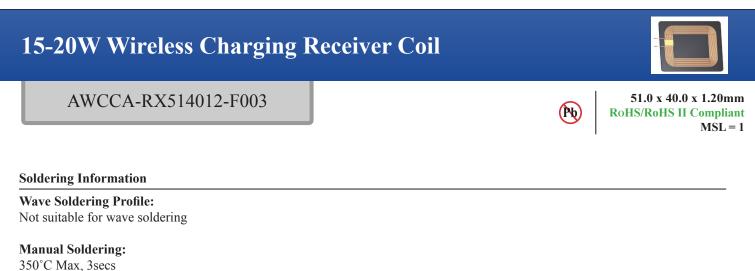
Number of Coils	Wire	Number of Turns	Inductance
1	02RS-N 0.30Gx2P	10 Turns, 1 Layer, CCW	8.5µH±10%
	Wire Material: Copper	Lead-Free	
	Ferrite	F40*51*0.4mm Ferrite	



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ABRACON IS ISO9001-2015 CERTIFIED



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Packaging

- Qty per Tray: 360pcs
- Qty Trays per box: 10
- Dimension of each tray: 360*360*15mm
- Dimension of each box: 390*390*180mm
- MOQ: 2000 pcs

Storage and Operational Condition

Storage Conditions:

- Recommended storage conditions: -40°C~85°C, RH 65±20%
- Service life: 12 Month @40°C, RH 40 ~ 65%.
- The appearance and solder ability should be check, if product is not in expiry date.

Operation Conditions:

- Use condition limit: $T = -25^{\circ}C \sim 85^{\circ}C$, RH 65±20%.



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