

20W Wireless Charging Receiver Coil



AWCCA-RX483205-103



48 x 32 x 1.6mm
RoHS/RoHS II Compliant
MSL = 1

Features

- Ideal for 20W applications
- Dimensions: 48.0 x 32.0 x 1.6 mm
- Compact and thin design
- High permeability shielding to protect sensitive electronics
- Very high-power density
- Low DCR and high inductance

Applications

- Batteries and battery chargers
- Charging accessories and fast chargers
- 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-RX483205-103	14.5µH±10%	140mΩ Max	60 Typ
Test Condition	100KHz / 1V	20±15°C	100KHz/1V
Test Environment	Temperature: 20±15°C, RH: 65% ±20%. Equipment: HP4284A, HP42841A , Agilent 34420A or equivalent		

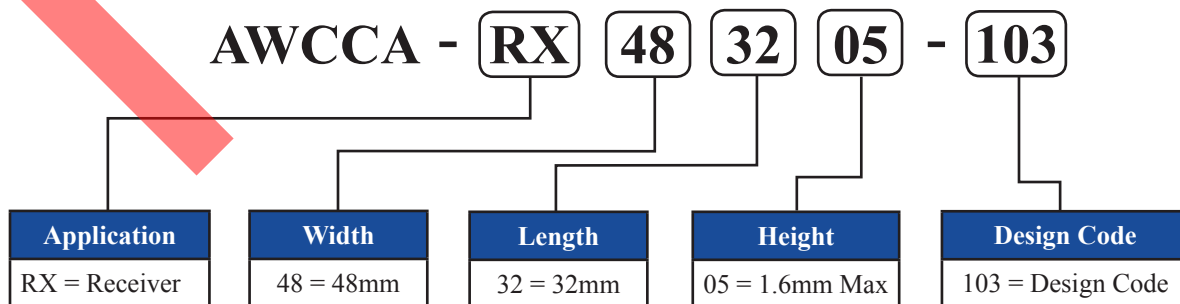
Test Conditions

Ambient Temperature: 20±15°C, RH: 65% ±20%.

If any doubt on the results, measurements/tests should be made within the following limits:

Ambient Temperature: 25±5°C, RH: 75%±10%

Part Identification



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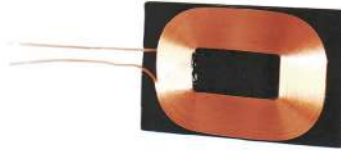


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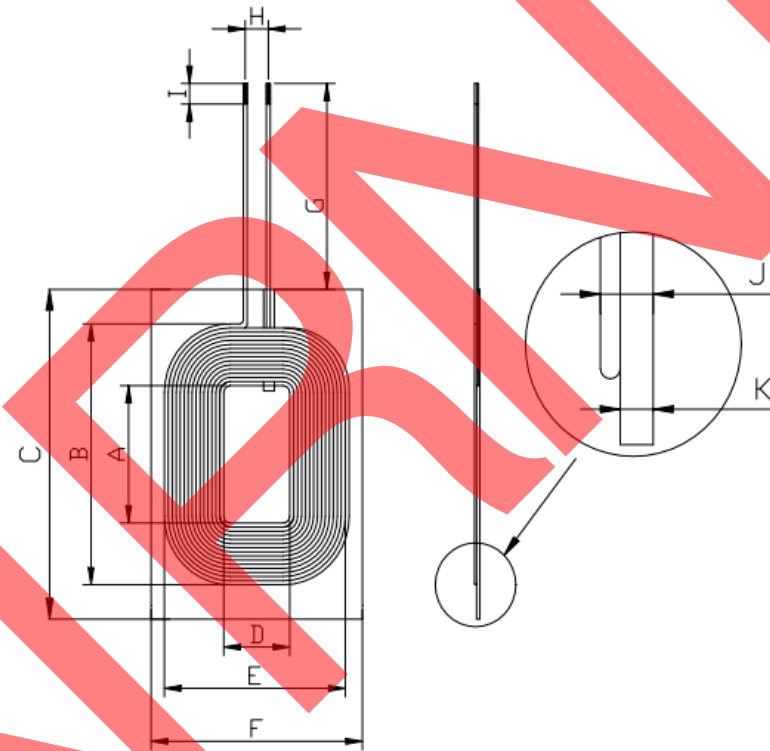


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Product Image



Mechanical Dimensions (Unit: mm)



Dimensions of AWCCA-RX483205-103

Item	A	B	C	D	E	F	G	H	I	J	K
Spec	22.5	41	48.0	11	30.0	32.0	40.0	11.0	5.0	1.6	0.5
Tol	±1.0	Max	±1.0	±1.0	Max	±1.0	±2.0	Typ	±2.0	Max	±0.10

Winding Details of AWCCA-RX483205-103

Number of Coils	Wire	Number of Turns	Inductance
1	Litz wire 30 * Φ0.10	16 Turns, 1 Layer	14.5μH±10%

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Soldering Information

Wave Soldering Profile:

Not suitable for wave soldering

Manual Soldering:

350°C Max, 3secs

Packaging

- Qty per Tray: 150pcs
- Qty Trays per Carton: 4
- Qty per Carton: 600pcs
- Weight per Tray: 12Kg
- Dimension of Carton: 41.5 * 30.0 * 30.0cm

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°C ~ 85°C, RH 65±20%.