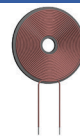


# 15-20W Wireless Charging Receiver Coil



AWCCA-RX300200-102



Ø30.0 x 2.0 mm  
RoHS/RoHS II Compliant  
MSL = 1

## Features

- Ideal for 15W to 20W applications
- Fast charge
- Dimensions: Ø30.0 x 2.0mm
- High permeability shielding to protect sensitive electronics
- High power density / low DCR
- Hole in the middle for LED or buttons

## 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,<br>RH 65±20% |
| Storage Temperature Range   | T = -40°C~85°C,<br>RH 65±20%   |

## Electrical Specifications

| Part Number        | Inductance                                                                                         | DC Resistance | Q         |
|--------------------|----------------------------------------------------------------------------------------------------|---------------|-----------|
| AWCCA-RX300200-102 | 6.3µH±10%                                                                                          | 140mΩ Max     | 26 Typ    |
| Test Condition     | 100KHz / 1V                                                                                        | 20±15°C       | 100KHz/1V |
| Test Environment   | Temperature: 20±15°C, RH: 65% ±20%.<br>Equipment: HP4284A, HP42841A , Agilent 34420A or equivalent |               |           |

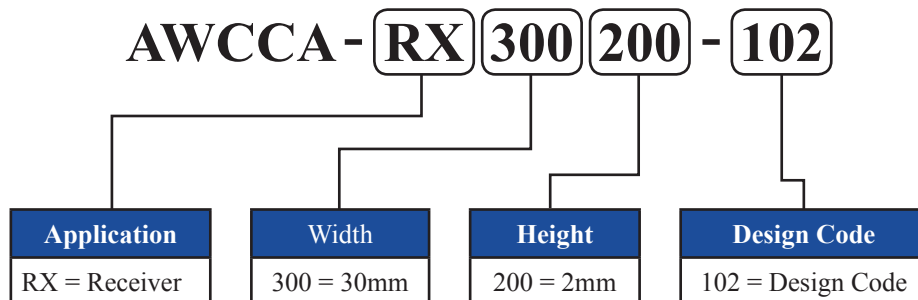
### Test Conditions

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

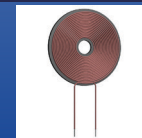
If any doubt on the results, measurements/tests should be made within the following limits:

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

## Part Identification



# 15-20W Wireless Charging Receiver Coil



AWCCA-RX300200-102

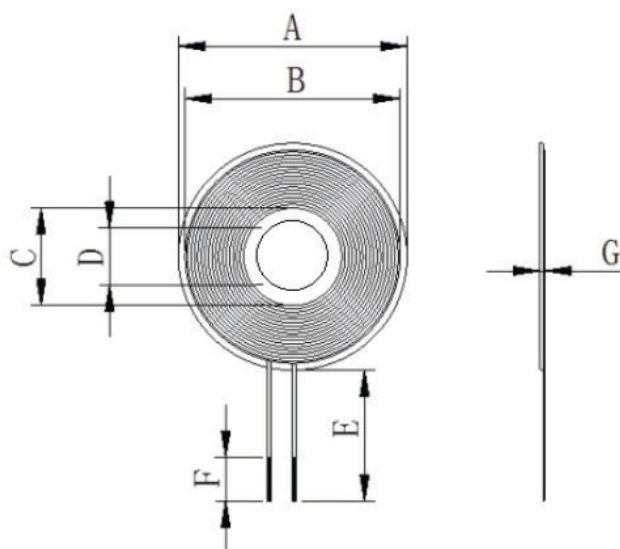


Ø30.0 x 2.0 mm  
RoHS/RoHS II Compliant  
MSL = 1

## Product Image



## Mechanical Dimensions (Unit: mm)



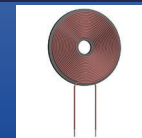
Dimensions of AWCCA-RX300200-102

| Item | A     | B     | C     | D     | E     | F     | G    |
|------|-------|-------|-------|-------|-------|-------|------|
| Spec | 30.00 | 29.00 | 7.00  | 5.40  | 20.00 | 3.00  | 2.00 |
| Tol  | ±0.50 | ±0.50 | ±0.50 | ±2.00 | ±0.50 | ±0.10 | Max  |

Winding Details of AWCCA-RX300200-102

| Number of Coils | Wire                       | Number of Turns | Inductance |
|-----------------|----------------------------|-----------------|------------|
| 1               | Litz wire                  | -               | 6.3µH±10%  |
| Magnetic Sheet  | Format                     |                 |            |
| Soft Ferrite    | 1 layer / Ø30.0mm x 1.00mm |                 |            |

# 15-20W Wireless Charging Receiver Coil



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Ø30.0 x 2.0 mm  
RoHS/RoHS II Compliant  
MSL = 1

## Soldering Information

### Wave Soldering Profile:

Not suitable for wave soldering

### Manual Soldering:

350°C Max, 3secs

## Packaging

- 300 pcs per tray
- 4 trays per carton
- 1200 pcs per carton
- Carton dimension: 41.5 x 30.0 x 30.0cm
- Weight per carton: 12kg

## 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%.

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