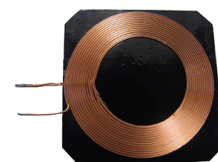


# Wireless Charging Coil Assembly

AWCCA-36R36H08-C51-B



RoHS / RoHS II Compliant



36 x 36 x 0.8 mm

**Moisture Sensitivity Level (MSL) – MSL = 1**

## FEATURES:

- Wireless Charging Receiver single Coil (12 $\mu$ H)
- Outline Dimensions: 36.0mm x 36.0mm x 0.8mm
- For Rx applications
- High permeability shielding to protect sensitive electronics
- Durable construction
- RoHS / RoHS II Compliant & Pb free.

## APPLICATIONS:

- Batteries and Battery Chargers
- Consumer Electronics
- Smart Watches
- Digital Cameras and Camcorders
- Wireless Charging Stations
- Mobile Phones & Charging Accessories
- Power Supplies
- Power Tool Manufacturers

## DESCRIPTION & KEY ELECTRICAL SPECIFICATIONS

The AWCCA-36R36H08-C51-B is a Wireless Charging Coils that can be used in receive applications. This is a single coil design with inductance of 12 $\mu$ H.

### Maximum Ratings

| Item                        | Value                             |
|-----------------------------|-----------------------------------|
| Operating Temperature Range | T=-25°C ~ 85°C,<br>RH $\leq$ 90%. |
| Storage Temperature Range   | -25°C~85°C,<br>70%RH (Max.)       |

| Part Number          | Inductance                                                              | DC Resistance      | Q            |
|----------------------|-------------------------------------------------------------------------|--------------------|--------------|
| AWCCA-36R36H08-C51-B | 12 $\mu$ H $\pm$ 10%                                                    | 350 m $\Omega$ max | 27 $\pm$ 30% |
| Test Condition       | 100KHz / 1V                                                             | 20 $\pm$ 10°C      | 100KHz/1V    |
| Test Environment     | Temperature: 20 $\pm$ 10°C, RH: 65% $\pm$ 20%<br>Equipment: Chroma11025 |                    |              |

### Test Conditions

Ambient Temperature: 20 $\pm$ 10°C, RH: 65%  $\pm$ 20%.

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

Ambient Temperature: 20 $\pm$ 2°C, RH: 65% $\pm$ 5%

## PART IDENTIFICATION:

AWCCA-36R36

H08

- C

51

- B

Height

H08 = 0.8mm

Feature

C = Coil

Design Code

51

Packaging

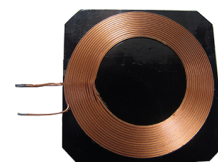
B: Box

# Wireless Charging Coil Assembly

AWCCA-36R36H08-C51-B

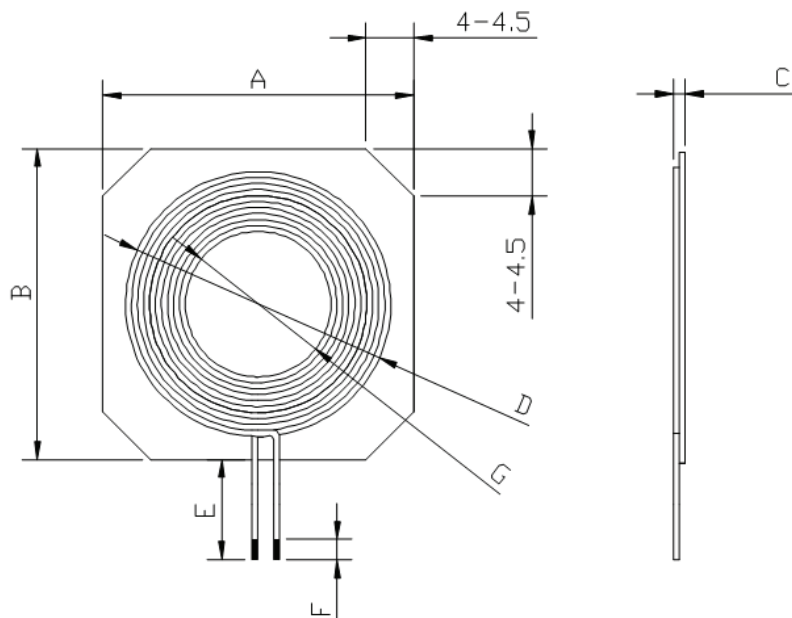


RoHS / RoHS II Compliant



36 x 36 x 0.8 mm

## OUTLINE DIMENSIONS:



| Item | A        | B        | C       | D      | E      | F     | G      |
|------|----------|----------|---------|--------|--------|-------|--------|
| Spec | 36+/-0.5 | 36+/-0.5 | 0.8 Max | 35 Max | 10+/-1 | 2+/-1 | 21 Ref |

## Winding Specifications

| Number of Coils | Wire                  | Number of Turns   | Inductance            |
|-----------------|-----------------------|-------------------|-----------------------|
| 1               | $\phi 0.25 \times 2p$ | 13 Turns, 1 Layer | $12.0 \pm 10\% \mu H$ |

**Wave Soldering Profile:** Not suitable for wave soldering

**Manual Soldering:** 350°C Max, 3secs

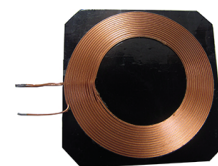
**Packaging:** Box, 100pcs MOQ

# Wireless Charging Coil Assembly

AWCCA-36R36H08-C51-B



RoHS / RoHS II Compliant



36 x 36 x 0.8 mm

## STORAGE AND OPERATIONAL CONDITION:

### Storage condition

- Recommended storage conditions: -25°C~85°C, 70%RH (Max.)
- Service life: Within the limits of six month from being produced.
- 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≤ 90%.

## NOTE:

i) The parts are manufactured in accordance with this specification. If other conditions and specifications which are required for this specification, please contact ABRACON for more information.

ii) ABRACON will supply the parts in accordance with this specification unless we receive a written request to modify prior to an order placement.

iii) In no case shall ABRACON be liable for any product failure from in appropriate handling or operation of the item beyond the scope of this specification.

iv) When changing your production process, please notify ABRACON immediately.

v) ABRACON LLC's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. ABRACON's products are not specifically designed for Military, Aviation, Aerospace, Lifedependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from ABRACON LLC is required. Please contact ABRACON LLC for more information.

vi) All specifications and Marking will be subject to change without notice.

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ABRACON IS  
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