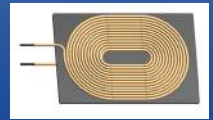


# 20W Wireless Charging Transmitter Coil



AWCCA-TX523517-102



52.0 x 35.0 x 1.76mm  
RoHS/RoHS II Compliant  
MSL = 1

## Features

- Ideal for 20W applications
- Dimensions: 52.0 x 35.0 x 1.76mm
- High permeability shielding to protect sensitive electronics
- Very high-power density
- Low DCR
- Wide temperature range

## 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 = -40°C ~ 120°C, RH 65±20%
Storage Temperature Range	T = -20°C~60°C, RH 65±20%

## Electrical Specifications

Part Number	Inductance	DC Resistance	Q
AWCCA-TX523517-102	6.3µH Typ (6.0uH min ~ 6.6uH max)	80mΩ Max	60 Min
Test Condition	100KHz / 1V	25°C	100KHz/0.1V
Test Environment	Temperature: 25°C, RH: 65% ±20%. Equipment: HP4284A, HP42841A , Agilent 34420A or equivalent		

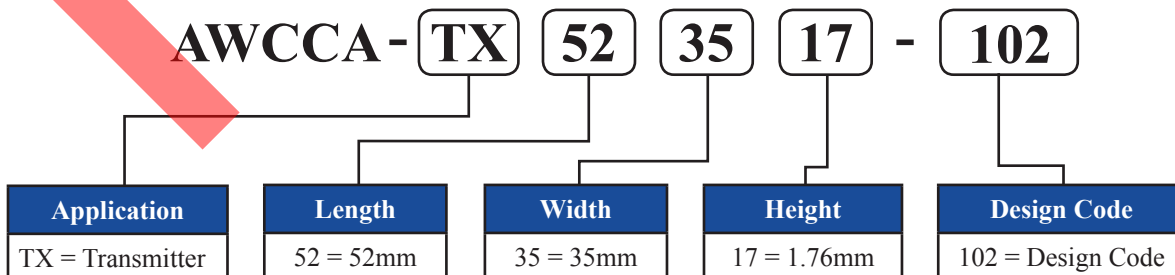
### Test Conditions

Ambient Temperature: 25°C, RH: 65% ±20%.

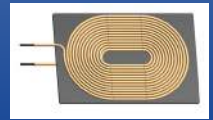
If any doubt on the results, measurements/tests should be made within the following limits:

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

## Part Identification



# 20W Wireless Charging Transmitter Coil

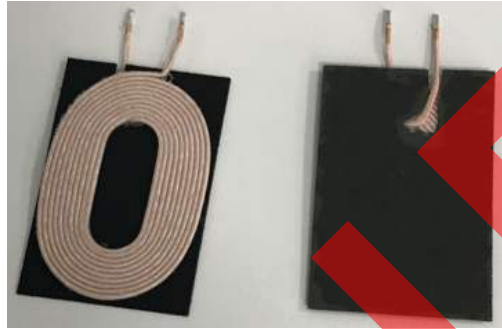


AWCCA-TX523517-102

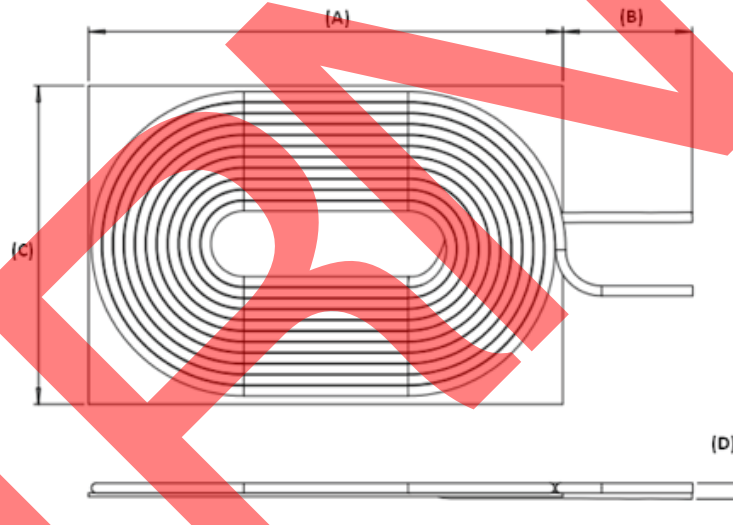


52.0 x 35.0 x 1.76mm  
RoHS/RoHS II Compliant  
MSL = 1

## Product Image



## Mechanical Dimensions (Unit: mm)



\* Coiled wire has been pressed together to reduce thickness where wire overlaps

### Dimensions of AWCCA-TX523517-102

Item	A	B	C	D
Spec	52.00	13.00	35.00	1.76
Tol	±2.0	±2.0	±2.0	±2.0

### Winding Details of AWCCA-TX523517-102

Number of Coils	Wire	Number of Turns	Inductance
1	220 strand 46 AWG Silk wire	10 Turns, 1 Layer	6.3μH±10%
Magnetic Sheet		Format	
Soft Ferrite		1 layer / 52.0mm x 35.0 mm	

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RoHS/RoHS II Compliant  
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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~60°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= -40°C ~ 120°C, RH 65±20%.