

FEATURES:

- Wireless Charging Transmitter Triple Coil Array
- Outline Dimensions: 98.0mm x 56.0mm x 3.8mm
- Linear Array of Primary Coils, 2 lower coils (12.0 μ H), 1 upper coil (11.5 μ H).
- For Tx applications working with 12V
- High permeability shielding to protect sensitive electronics
- Durable construction
- RoHS Compliant & Pb free.

APPLICATIONS:

- Wireless Charging Stations
- Automotive Industry (in car charging)
- Batteries Chargers
- Consumer Electronics Chargers
- Mobile Phone Charging Accessories
- Power Tool Manufacturers

DESCRIPTION & KEY ELECTRICAL SPECIFICATIONS

The MCTC98 is a Wireless Charging Coils that can be used in receive applications. This is a single coil design with inductance of 12 μ H(2 lower coils), and 11.5 μ H(upper coil).

Maximum Ratings

Part Number	Inductance	DC Resistance	Q	Operating Temperature Range
MCTC98	12 μ H \pm 10%(lower coils) 11.5 μ H \pm 10% (upper coils)	56m Ω \pm 20%	120 \pm 30% (lower coils) 110 \pm 30% (upper coils)	T=-25°C ~ 85°C, RH \leq 70%.
Test Condition	100KHz / 1V	20 \pm 15°C	100KHz/1V	Storage Temperature Range
Test Environment	Temperature: 20 \pm 10°C, RH: 65% \pm 20% Equipment:LCZ 1105			-25°C~85°C, 70%RH (Max.)

Test Conditions:: 20 \pm 1 5°C

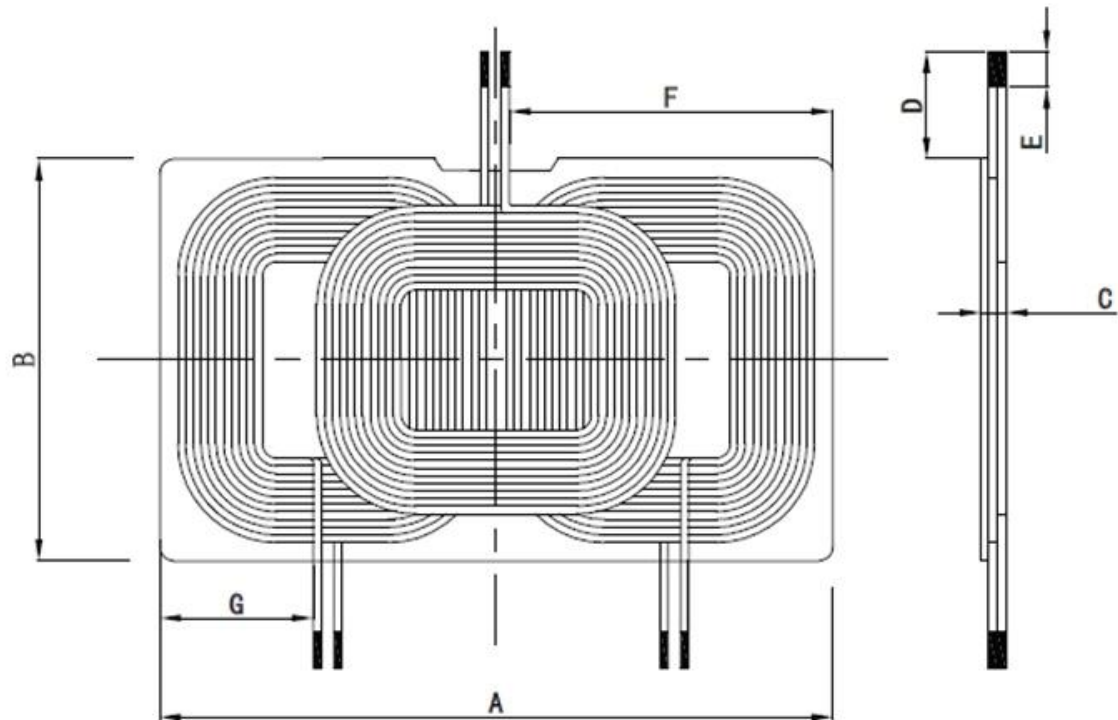
STORAGE AND OPERATIONAL CONDITION:**Storage condition**

- ❖ 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 \leq 90%.

DIMENSIONS:



Item	A	B	C	D	E	F	G
Spec	98±1.0	56±1.0	3.8 Max	15 REF	5.0REF	45.0 REF	20.0 REF

WINDING Specifications:

Number of Coils.	Wire	Number of turns	Inductance
3	ø 17AWG (1.15mm) Type 2 Litz wire with 105 strands 40 AWG (0.08mm)	12	Lower 12uH±10%μH Upper 11.5uH±10%μH

- ❖ Wave Soldering Profile: Not suitable for wave soldering
- ❖ Manual Soldering: 350°C Max, 3secs
- ❖ Packaging: Box, 100pcs MOQ