FEATURES:

- Wireless Charging Receiver single Coil (8μH)
- Outline Dimensions: 12.0mm x 12.0mm x 1.1mm
- For Rx applications
- High permeability shielding to protect sensitive electronics
- Durable construction
- RoHS 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 SP ECIFICATIONS

The MCTC12 is a Wireless Charging Coils that can be used in receive applications. This is a single coil design with inductance of 12μH.

Maximum Ratings

Part Number	Inductance	DC Resistance	Q	Operating Temperature Range
MCTC12	8 μH ±10%	520 mΩ max	10.1±30%	T=-25˚C ~ 85˚C, RH≤ 70%.
Test Condition	100KHz / 1V	20±10˚C	100KHz/1V	Storage Temperature Range
Test Environment	Temperature: 20±10˚C, RH: 65% ±20% Equipment:LCZ 1062			-25˚C~85˚C, 90%RH (Max.)

Test Conditions

Ambient Temperature: 20±10˚C, RH: 65% ±20%.
If any doubt on the results, measurements/tests should be made within the following limits:
Ambient Temperature: 20±2˚C, RH: 65%±5%

STORAGE AND OPERATIONAL CONDITION:

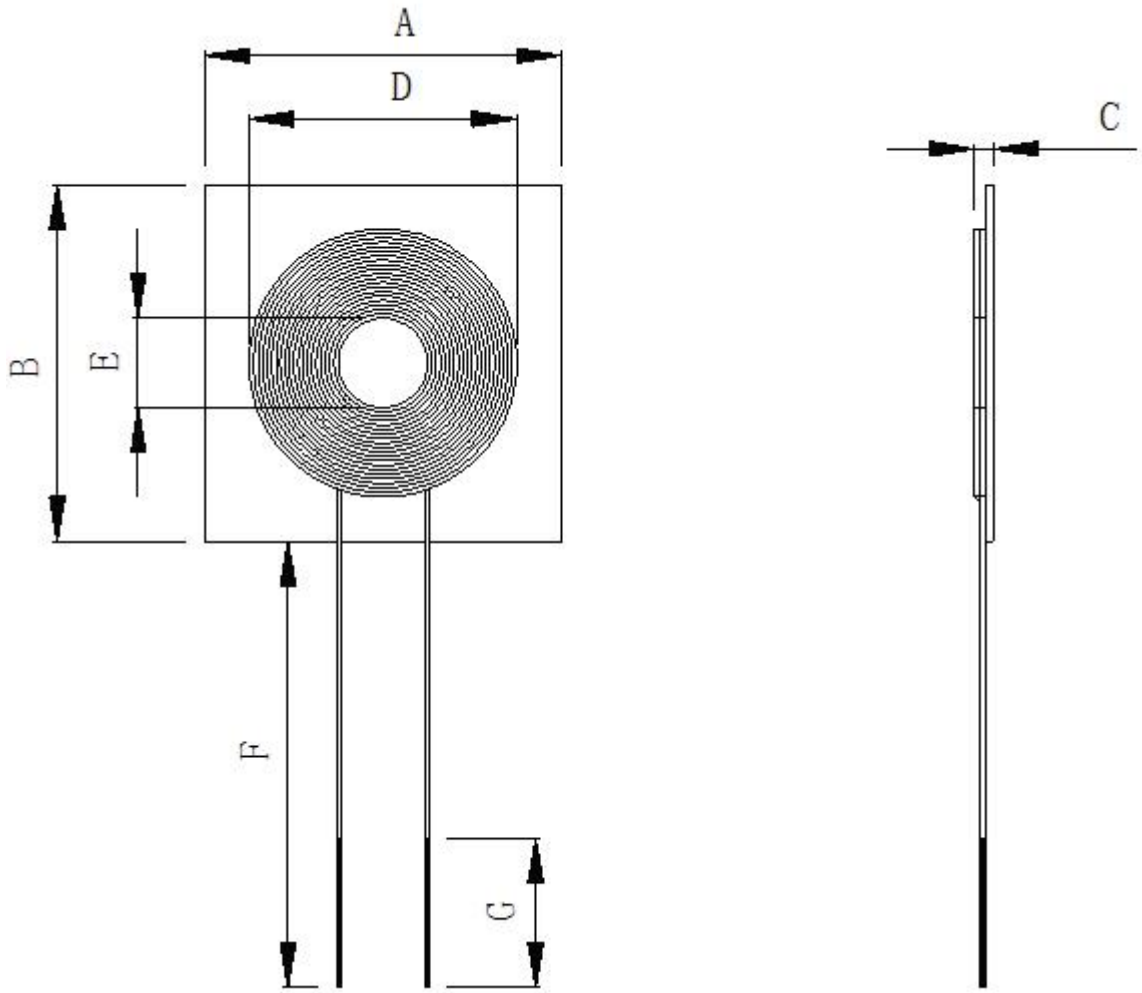
Storage condition

- 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%.

DIMENSIONS:



Item	A	B	C	D	E	F	G
Spec	12±0.5	12±0.5	1.1REF	9.5REF	5.0REF	15±1	5±1

WINDING DETAIL:

No.	Wire	Number of turns	Inductance
1	Φ0.17mm	22REF	8.0±10%uH

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