

FEATURES:

- Wireless Charging Receiver single Coil (12.5 μ H)
- Outline Dimensions: 50.0mm x 50.0mm x 1.6mm
- Can also be used for Rx applications
- 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 Charging Systems

DESCRIPTION & KEY ELECTRICAL SPECIFICATIONS

The MCTC50B is a Wireless Charging Coils that can be used in receive applications. This is a single coil design with inductance of 12.5 μ H.

Maximum Ratings

Part Number	Inductance	DC Resistance	Q	Operating Temperature Range
MCTC50B	12.5 μ H \pm 10%	80m Ω max	80 \pm 30%	T=-25°C ~ 85°C, RH \leq 70%.
Test Condition	100KHz / 1V	20 \pm 10°C	100KHz/1V	Storage Temperature Range
Test Environment	Temperature: 20 \pm 10°C, RH: 65% \pm 20% Equipment: Chroma11025			-25°C~85°C, 70%RH (Max.)

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%

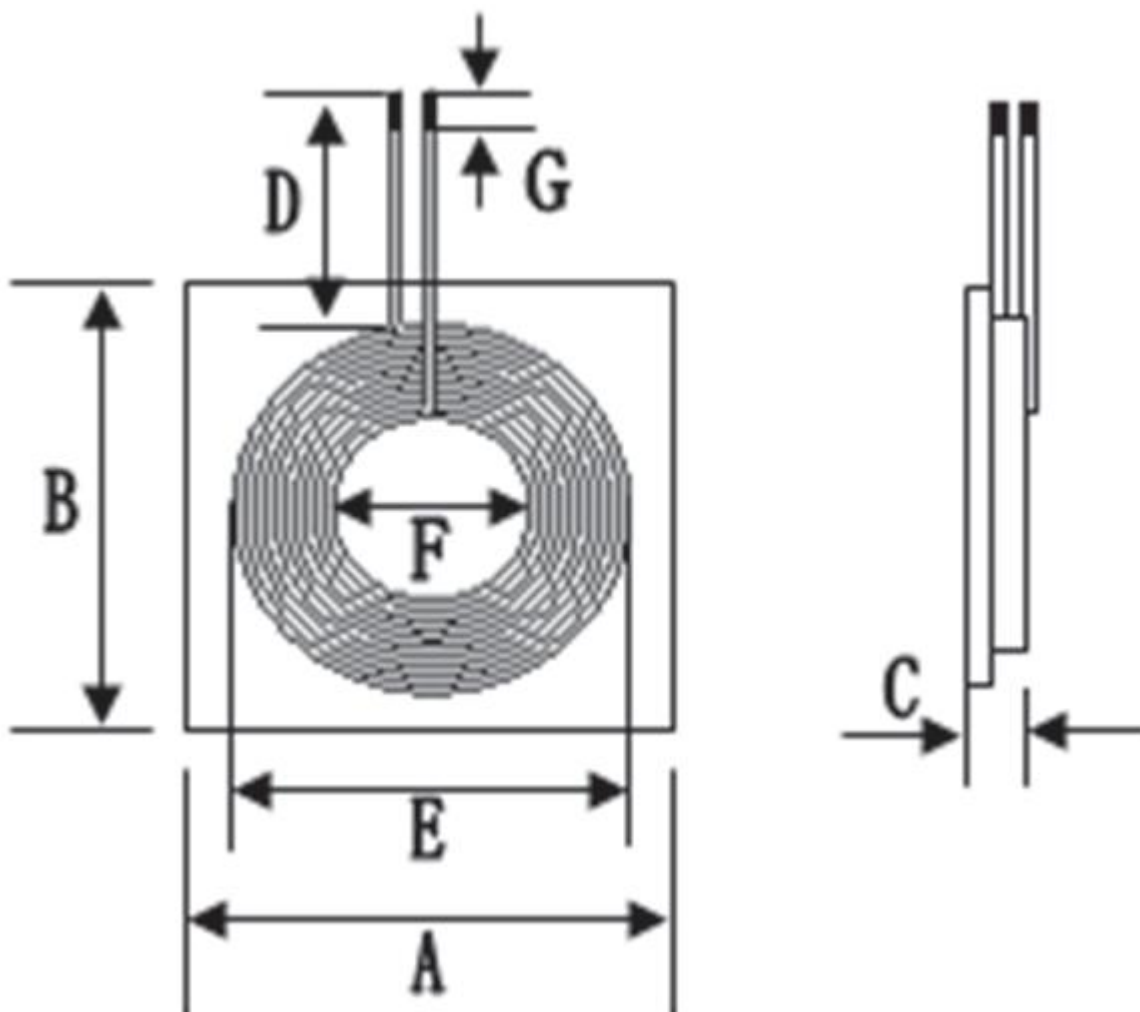
STORAGE AND OPERATIONAL CONDITION:**Storage condition**

- ❖ 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	50±1.0	50±1.0	1.6±0.5	50±3.0	43.5REF	22REF	5±2.0

WINDING Specifications:

No.	Wire	Number of turns	Inductance
1	ø 0.12X30	13 Turns, 1 Layer	12.5±10%μH

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