

FEATURES:

- Wireless Charging Coil for Transmitter or Receiver applications,(6.3 μH & 24 μH options)
- Outline Dimensions: 53mm x 53mm x 5.0mm.
- For Tx or Rx Applications.
- High permeability shielding to protect sensitive electronics
- · Durable construction
- RoHS / RoHS II Compliant & Pb free.

APPLICATIONS:

- Automotive Industry (in car charging)
- Batteries and Battery Chargers
- Consumer Electronics
- Smart Watches
- Digital Cameras and Camcorders
- · Wireless Charging Stations
- Mobile Phones & Charging Accessories
- Power Supplies
- Power Tool Manufacturers

Maximum Ratings

Item	Value			
Operating Temperature Range	T=-25° C~85° C,RH≤ 90%.			
Storage Temperature Range	-25° C~85° C,70%RH (Max.)			

Electrical Characteristics

Part Number	Inductance	DC Resistance	Q	Saturated Current (rms)	Current Rating(rms)	SRF
MCTC53	24μH ±10%	72mΩ±20%	170±30%	30A	5.7A Typ.	2.8MHz
MCTC53	6.3μH ±10%	19mΩ±20%	66±30%	40A	11А Тур.	6.4MHz
Test Condition	100KHz / 1V	20±15°C	100KHz/1V	100KHz/1V	ΔT = 40 K	
Test Environment	Ambient Temperature: 20±15°C, RH:65%±20%.					

Test Conditions

Ambient Temperature: 20±15°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

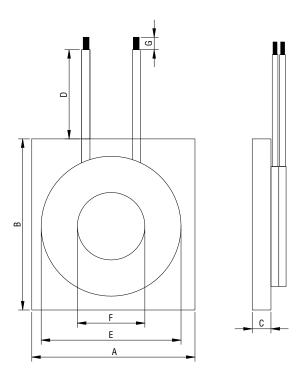
- Recommended storage conditions: -25°C~85°C, 70%RH (Max.)
- Service life: Within the limits of six month from being produced.
- The appearance and solder ability should be check, if product is not in expiry date.

Operation Conditions

Use condition limit: $T=-25^{\circ}$ $C\sim85^{\circ}$ C, $RH\leq90\%$.



DIMENSIONS:



Nominal Code	Number of Coils	Wire	Number of turns	Inductance
C01	1	φ 0.08×105	20	24μH±10%
C02	1	φ 0.08×105	10	6.3µH±10%

WINDING Specifications:

Part.Numbe	А	В	С	D	E	F	G
MCCT53	53±1	53±1	5.0±0.5	50±3	44MAX	20.5±0.5	5.0±2.0

❖ Wave Soldering Profile: Not suitable for wave soldering

Manual Soldering: 350°C Max, 3secs

Packaging: Box, 100pcs MOQ