



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## FEATURES



- Designed to meet WPC Qi Standard, power transmitter design A1 compliant
- Operating temperature -40°C to +125°C
- Assembled with ferrite plate which is built with WPC listed ferrite material, high Q for maximum power transmission

## APPLICATIONS

- Wireless charger for general electronic device or aftermarket accessories
- Wireless charger for office, residential or public area application
- Wireless charger for power tools or any other devices that need contactless power
- Wireless charging embedded solution for automobile central console, arm rest...etc

## ELECTRICAL SPECIFICATIONS

PART NUMBER	INDUCTANCE ( $\mu\text{H} \pm 10\%$ )			DCR Max (m $\Omega$ )	Q @ 100 KHz/1V (MIN)	SATURATION CURRENT (A) MAX	RMS CURRENT (A) MAX
	MIN	NOM	MAX				
RWC5353EJ240-500	21.6	24.0	26.4	75	90	10.0	5.5
RWC5353EJ240-501	21.6	24.0	26.4	75	90	10.0	5.5

1. Inductance tested at 100KHz,1V
2. Operating temperature range: -40°C ~ +125°C (Including self-heating)
3. Storage temperature range (packaging conditions): -10°C ~ +40°C and RH 70%(MAX)
4. Unless otherwise specified, the standard atmospheric conditions for measurement/test as:
  - A. Ambient temperature: 20°C±15°C
  - B. Relative humidity: 65%±20%
5. Definition of saturation current (ISAT): DC current at which the inductance drops  $\leq 10\%$  from its value without current.
6. Definition of temperature rise current (IRMS): DC current that causes the temperature rise ( $\Delta T \leq 40\%$ ) from 20°C ambient.

## SHAPES AND DIMENSIONS

Unit:mm

PART NUMBER	A	B	C
RWC5353EJ240-500	53.00±0.50	53.00±0.50	57.5 Typ.
RWC5353EJ240-501			

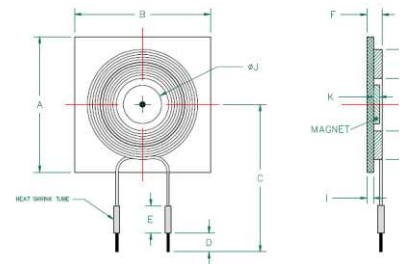
PART NUMBER	D	E	F
RWC5353EJ240-500	10.00±2.00	10.0 Typ.	6.7 Max
RWC5353EJ240-501			

PART NUMBER	G	H	I
RWC5353EJ240-500	43.00±1.00	20.50±1.00	2.50±0.40
RWC5353EJ240-501			

PART NUMBER	J	K
RWC5353EJ240-500	15.00±0.50	2.50±0.50
RWC5353EJ240-501	/	/



## PART NUMBER SYSTEM EXAMPLE

<u>RWC</u>	<u>5353</u>	<u>EJ</u>	<u>240</u>	-	<u>500</u>
Coil Type	Part Size Code	Height Code	Inductance Code		Catalog or Custom Information

USA: +1.423.308.1690  
 Europe: +42.0.4885.7511.1  
 Asia: +86.757.2563.8860

MCP-DS-WPC A1 REV1.1 0414

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