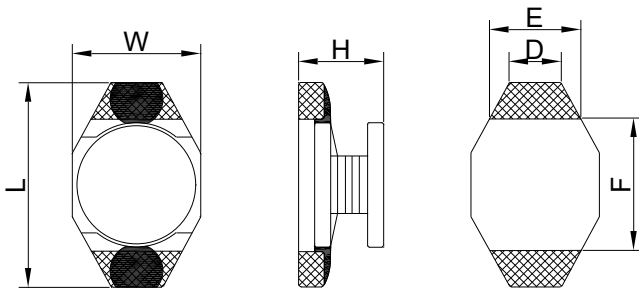


Product Outline

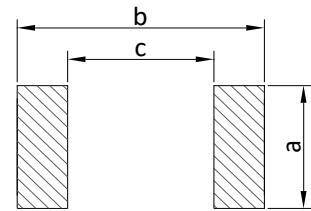
- Saturation current handling to be up to 2.9A.
- High energy storage and very low resistance.
- For DC-DC converter applications.
- Ceramic base with Au plating is used for high temperature applications.
- Custom design is also available.
- RoHS compliant.



Dimensions



Recommended Land Patterns



Unit: mm

Type	L	W	H	D	E	F	a	b	c	Packaging (pcs/reel)
CDC664530	6.6 Max.	4.45 Max.	2.92 Max.	1.27	2.3	4.32	3.6	6.9	4.0	2500

Dimensions without tolerance are typical.

Product Identification

CDC 664530 - 100 M
 (1) (2) (3) (4)

(1) Product Series No.

(2) Dimensions:

664530=6.6 x 4.45 x 2.92mm (L x W x H)

(3) Inductance value:

100=10×10⁰uH=10uH 2R2=2.2uH

(4) Tolerance:

K=±10% L=±15% M=±20% P=±25% N=±30%

Electrical Characteristics(at 25°C)

Part Number	Inductance ① (uH)	Inductance tolerance	DCR (mΩ) Max.	Isat ② (A)	Irms ③ (A)	SRF(Ref.) (MHz)
CDC664530-1R0M	1.0	±20%	50.0	2.90	2.70	130
CDC664530-1R5M	1.5	±20%	60.0	2.60	2.65	115
CDC664530-2R2M	2.2	±20%	70.0	2.30	2.55	100
CDC664530-2R7M	2.7	±20%	80.0	2.10	2.45	75
CDC664530-3R3M	3.3	±20%	80.0	2.00	2.20	70
CDC664530-4R7M	4.7	±20%	90.0	1.50	1.90	50
CDC664530-6R8M	6.8	±20%	130	1.20	1.60	45
CDC664530-8R2M	8.2	±20%	160	1.15	1.55	40
CDC664530-100M	10	±20%	160	1.10	1.50	35
CDC664530-150M	15	±20%	230	0.90	1.25	30
CDC664530-220M	22	±20%	370	0.70	0.95	20
CDC664530-330M	33	±20%	510	0.58	0.80	15
CDC664530-470M	47	±20%	640	0.50	0.70	14
CDC664530-680M	68	±20%	860	0.40	0.60	11
CDC664530-101M	100	±20%	1270	0.31	0.50	9.0
CDC664530-151M	150	±20%	2000	0.27	0.39	6.0
CDC664530-221M	220	±20%	3110	0.22	0.31	5.5
CDC664530-331M	330	±20%	3800	0.18	0.30	5.0
CDC664530-471M	470	±20%	5060	0.16	0.26	4.0
CDC664530-681M	680	±20%	9200	0.14	0.19	3.0
CDC664530-102M	1000	±20%	13800	0.10	0.15	2.0

Note:

- ① Inductance tested at 100kHz, 0.1V using an Agilent/HP 4192A or equivalent.
- ② Isat: The DC current at which the inductance decreases by 10% of its initial value.
- ③ Irms: The DC current at which temperature rise is $\Delta T=40^{\circ}\text{C}$ ($T_a=25^{\circ}\text{C}$).