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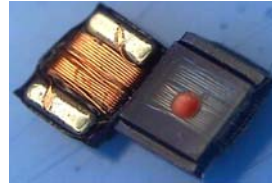
## LCD0805 Series Type

### SMD Inductor for Power Line

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#### FEATURES

- Utilizing a miniaturized winding structure.
- These products provide low DC resistance and high current.
- Precision inductance tolerance is available.



#### APPLICATIONS

- Personal computers, Hard disk drives
- xDSL modem and Cable modem
- Digital camera and other electronic equipment

#### PRODUCT IDENTIFICATION

LCD 0805 - 1R0 K - T

(1) (2) (3) (4) (5)

(1) Product name

(2) Dimension

(3) Inductance

1R0 : 1.0uH ; 100 : 10uH

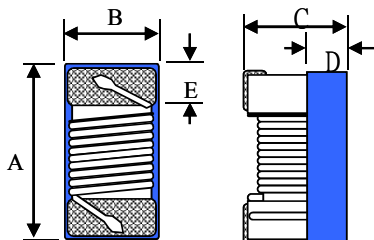
(4) Tolerance

J :  $\pm 5\%$  ; K :  $\pm 10\%$  ; M :  $\pm 20\%$

(5) Taping style

T : Taping ; None : Bulk

#### SHAPES AND DIMENSIONS(Unit:mm)



A max. : 2.40 mm

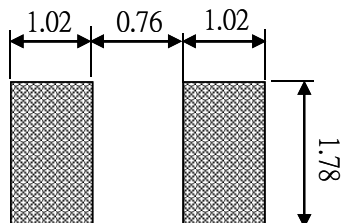
B max. : 1.65 mm

C :  $1.20 \pm 0.1$  mm

D ref. : 0.65 mm

E :  $0.44 \pm 0.1$  mm

#### RECOMMENDED FOOTPRINT(Unit:mm)



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#### ELECTRICAL CHARACTERISTICS

Our Product Part Number	Inductance (uH)/MHz	Inductance Tolerance	Q/MHz Typ.	SRF Typ. (MHz)	RDC $\pm$ 30% ( $\Omega$ )	Idc Typ. (mA)	Irms Typ. (mA)	Color Coding
LCD0805-R47□-T	0.47/7.9	K,M	14/7.9	850	0.12	1400	1500	Blue
LCD0805-R68□-T	0.68/7.9	K,M	14/7.9	765	0.15	1200	1300	Gray
LCD0805-1R0□-T	1.0/7.9	K,M	14/7.9	208	0.13	1100	1300	Black
LCD0805-1R2□-T	1.2/7.9	K	14/7.9	159	0.16	960	1270	Red
LCD0805-1R5□-T	1.5/7.9	K,M	14/7.9	159	0.17	920	1260	Brown
LCD0805-1R8□-T	1.8/7.9	K,M	14/7.9	112	0.20	860	1080	Orange
LCD0805-2R2□-T	2.2/7.9	K,M	13/7.9	87	0.22	740	1040	Red
LCD0805-2R7□-T	2.7/7.9	K,M	13/7.9	72	0.25	680	1040	Yellow
LCD0805-3R3□-T	3.3/7.9	K,M	12/7.9	70	0.28	620	1020	Orange
LCD0805-3R9□-T	3.9/7.9	K,M	14/7.9	61	0.38	580	960	Green
LCD0805-4R7□-T	4.7/7.9	K,M	14/7.9	51	0.43	520	840	Yellow
LCD0805-5R6□-T	5.6/7.9	K,M	12/7.9	47	0.50	480	800	Blue
LCD0805-6R8□-T	6.8/7.9	K,M	14/7.9	46	0.68	420	700	Green
LCD0805-8R2□-T	8.2/7.9	K,M	13/7.9	33	0.73	400	680	Violet
LCD0805-100□-T	10/2.5	J,K,M	14/2.5	31	0.85	360	560	Blue
LCD0805-120□-T	12/2.5	J,K,M	14/2.5	30	0.90	340	460	Gray
LCD0805-150□-T	15/2.5	J,K,M	15/2.5	28	1.40	300	380	Violet
LCD0805-180□-T	18/2.5	J,K,M	15/2.5	27	1.55	280	360	White
LCD0805-220□-T	22/2.5	J,K,M	15/2.5	20	1.76	240	340	Gray
LCD0805-270□-T	27/2.5	J,K,M	15/2.5	17	2.00	220	300	Black
LCD0805-330□-T	33/2.5	J,K,M	15/2.5	17	2.35	200	300	White
LCD0805-470□-T	47/2.5	J,K,M	14/2.5	15	3.40	160	280	Black
LCD0805-560□-T	56/2.5	J,K,M	14/2.5	10	4.42	150	240	Yellow
LCD0805-680□-T	68/2.5	J,K,M	14/2.5	10	4.45	140	240	Brown
LCD0805-820□-T	82/2.5	J,K,M	14/2.5	10	7.50	100	180	Orange
LCD0805-101□-T	100/1.0	J,K,M	10/1.0	9	7.50	100	180	Red

- When ordering, please specify tolerance and packaging codes. Ex: LCD0805-100J-T

Tolerance : J =  $\pm$ 5%, K =  $\pm$ 10%, M =  $\pm$ 20%

Packaging : Clear tape and reel { standard }.

- L, Q : Agilent/HP E4991A+ Agilent/HP16197A

(The electrical specification test by the smallest gap position) or HP16193A

- SRF : Agilent/HP E4991A+ Agilent/HP 16197A

(The electrical specification test by the smallest gap position) or HP16193A

- Rdc : DIGITAL MILLIOHM METER Chroma 16502, or equivalent.

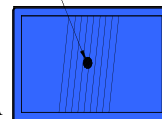
- Idc for Inductance drop 10% from its value without current.

- Irms for a 25°C rise above 25°C ambient.

- Operating temperature range from -25°C to 85°C.

- Packaging quantity: 2000 pcs/reel

1st



COLOR CODING

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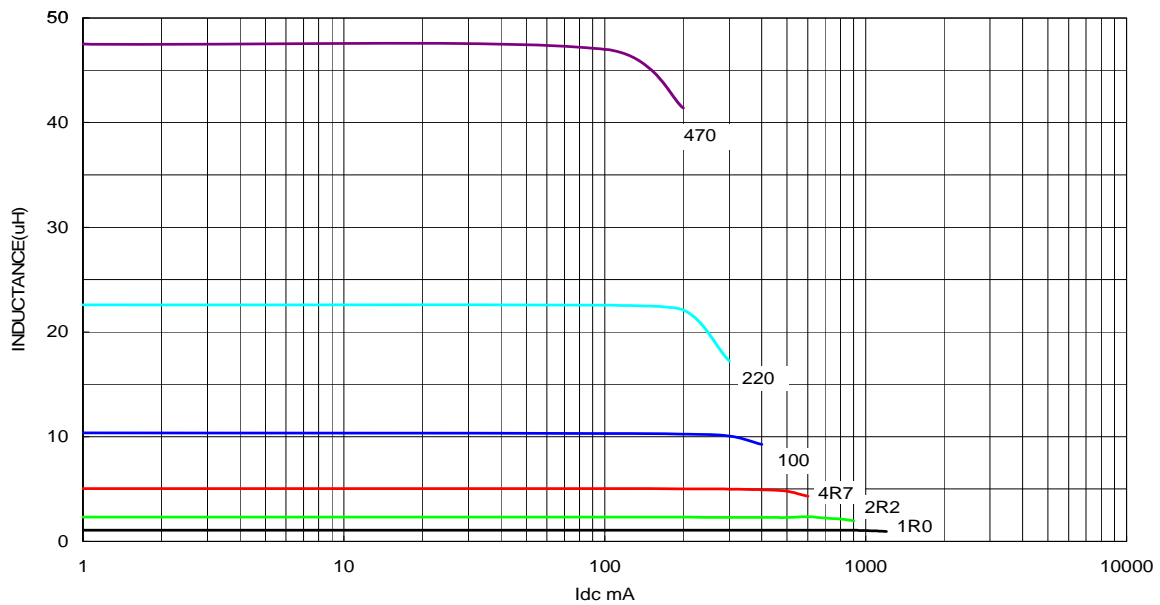
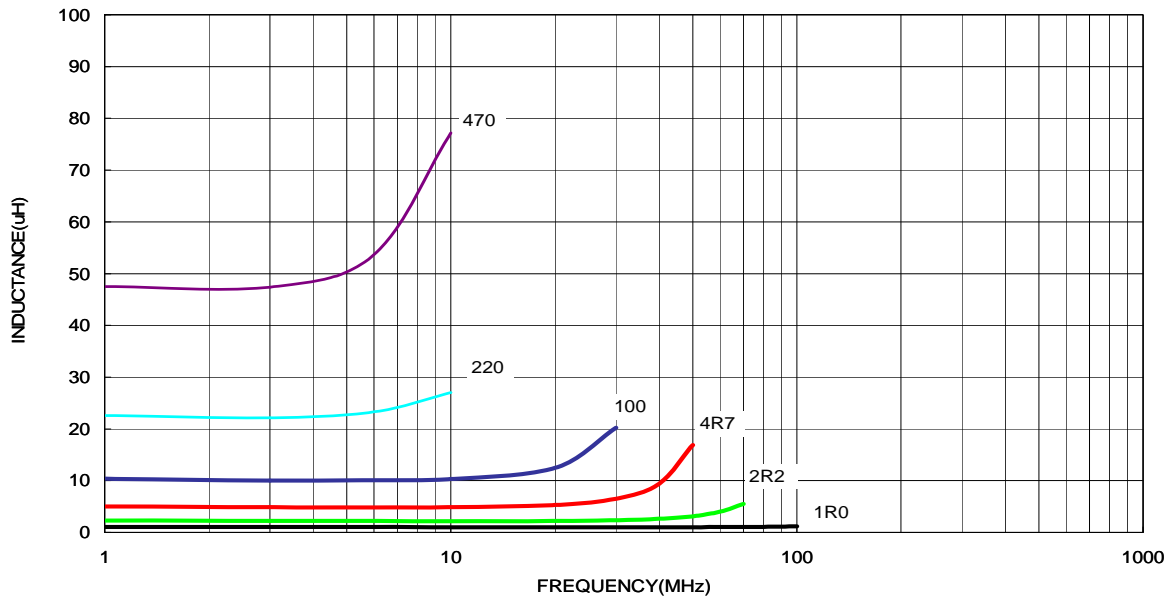
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## ELECTRICAL CHARACTERISTICS

Characteristics(L,Q vs. Frequency)



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