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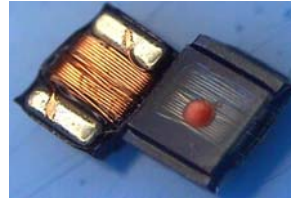
## LCD0603 Series Type

### 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 0603 - 1R0 K - T

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

(1) Product name

(2) Dimension

(3) Inductance

1R0 : 1.0uH ; 100 : 10uH

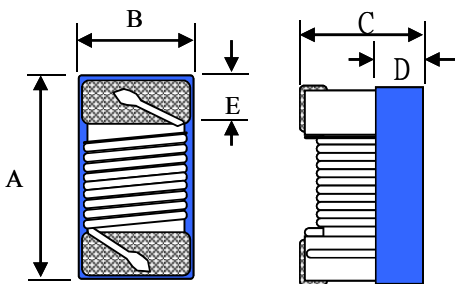
(4) Tolerance

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

(6) Taping style

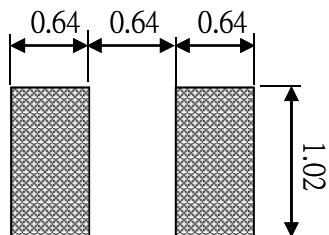
T : Taping ; None : Bulk

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



A max.	: 1.80	mm
B max.	: 1.20	mm
C max.	: 1.00	mm
D ref.	: 0.45	mm
E	: 0.33	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
LCD0603-1R0□-T	1.0/7.9	K,M	16/7.9	390	0.32	860	700	Black
LCD0603-1R5□-T	1.5/7.9	K,M	16/7.9	160	0.40	720	600	Brown
LCD0603-1R8□-T	1.8/7.9	K,M	16/7.9	121	0.43	640	580	Red
LCD0603-2R2□-T	2.2/7.9	K,M	16/7.9	103	0.56	600	580	Orange
LCD0603-2R7□-T	2.7/7.9	K,M	16/7.9	72	0.62	540	500	Yellow
LCD0603-3R3□-T	3.3/7.9	K,M	16/7.9	66	0.70	500	500	Green
LCD0603-3R9□-T	3.9/7.9	K,M	16/7.9	61	0.83	460	460	Blue
LCD0603-4R7□-T	4.7/7.9	K,M	16/7.9	51	0.97	400	420	Violet
LCD0603-5R6□-T	5.6/7.9	K,M	16/7.9	47	1.10	380	380	Gray
LCD0603-6R8□-T	6.8/7.9	K,M	16/7.9	43	1.50	340	340	White
LCD0603-8R2□-T	8.2/7.9	K,M	16/7.9	40	1.68	300	300	Black
LCD0603-100□-T	10/2.5	K,M	14/2.5	36	1.85	280	280	Brown
LCD0603-120□-T	12/2.5	K,M	14/2.5	32	2.28	260	260	Red
LCD0603-150□-T	15/2.5	K,M	14/2.5	29	2.60	240	240	Orange
LCD0603-180□-T	18/2.5	K,M	14/2.5	28	2.90	220	220	Yellow
LCD0603-220□-T	22/2.5	K,M	14/2.5	24	3.61	200	200	Green
LCD0603-270□-T	27/2.5	K,M	14/2.5	20	5.20	140	140	Blue
LCD0603-330□-T	33/2.5	K,M	14/2.5	15	6.60	120	120	Violet

1. When ordering, please specify tolerance and packaging codes. Ex: LCD0603-100K-T

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

Packaging : Clear tape and reel {standard}.

2. L , Q 、 SRF : Agilent/HP E4991A+ Agilent/HP 16197A

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

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

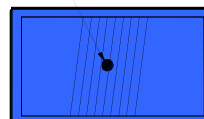
4. Idc for Inductance drop 10% from its value without current.

6. Irms for a 15°C rise above 25°C ambient.

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

8. Packaging quantity: 4000 pcs/reel

1st Code



COLOR CODING

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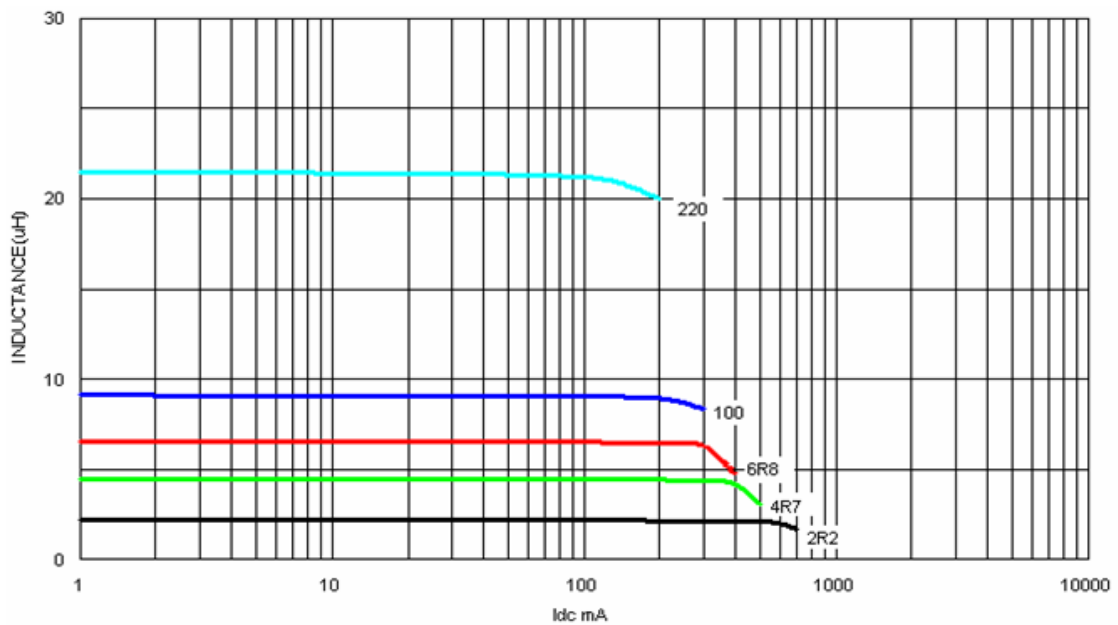
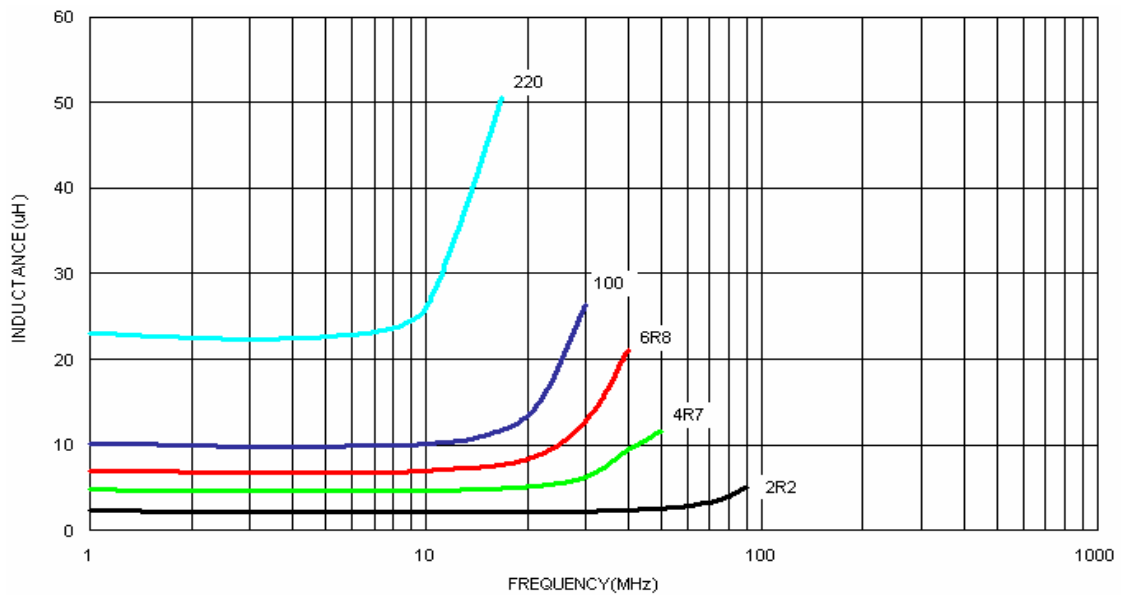
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### ELECTRICAL CHARACTERISTICS

Characteristics(L,Q vs. Frequency)



## X-ON Electronics

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