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## HQC0805-Series

### High Frequency SMD Inductor for Signal Line

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#### FEATURES

- Especially high Q factor in this series for customers' design.
- Resin-coated surface enables excellent mounting
- Low DC resistance design is ideal for low loss, high output and low power consumption.



#### APPLICATIONS

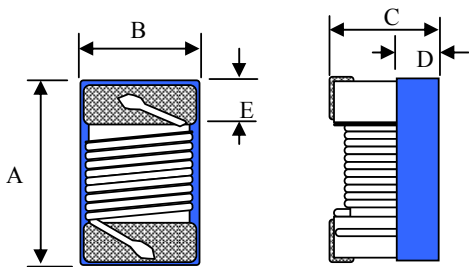
- For high-frequency applications including mobile phones, portable phones, such as PA, ANT, VCO, SAW, etc.
- Mobile phones such as GSM, CDMA, PDC, etc.
- Bluetooth, W-LAN

#### PRODUCT IDENTIFICATION

##### HQC 0805 - 10N J - T

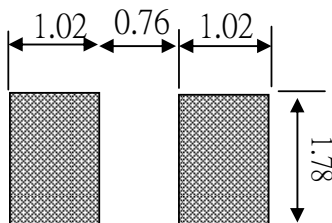
- |                                 |  |
|---------------------------------|--|
| (1) Product name                | (4) Tolerance                                  |
| (2) Shapes and Dimensions (LxW) | G : $\pm 2\%$ ; J : $\pm 5\%$ ; K : $\pm 10\%$ |
| (3) Inductance                  | (6) Taping style                               |
| 10N:10nH, 3N3:3.3nH             | T : Taping ; None : Bulk                       |

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



- |          |         |
|----------|---------|
| A max. : | 2.40 mm |
| B max. : | 1.65 mm |
| C max. : | 1.45 mm |
| D ref. : | 0.65 mm |
| E :      | 0.44 mm |

#### RECOMMENDED FOOTPRINT(Unit:mm)



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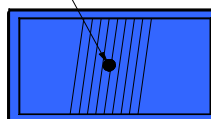
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#### ELECTRICAL CHARACTERISTICS

Our Product Part Number	Inductance (nH)/MHz	Inductance Tolerance	Q/MHz Min.	SRF(Min.) (MHz)	DCR ( $\Omega$ )Max.	Irms Max. (mA)	Color Coding
HQC0805-2N5□-T	2.5/250	10,5	60/1500	>6000	0.030	1600	Black
HQC0805-5N6□-T	5.6/250	10,5	98/1500	>6000	0.040	1600	Brown
HQC0805-6N2□-T	6.2/250	10,5	70/1000	4750	0.035	1600	Red
HQC0805-10N□-T	10/250	10,5	75/1000	3000	0.050	1600	Gray
HQC0805-12N□-T	12/250	10,5,2	80/1000	3000	0.050	1600	Orange
HQC0805-16N□-T	16/250	10,5,2	72/500	2950	0.060	1500	Yellow
HQC0805-18N□-T	18/250	10,5,2	75/500	2550	0.065	1400	Green
HQC0805-20N□-T	20/250	10,5,2	70/500	2050	0.065	1400	Blue
HQC0805-27N□-T	27/250	10,5,2	75/500	2000	0.075	1300	Violet
HQC0805-30N□-T	30/250	10,5,2	65/500	1950	0.095	1200	Gray
HQC0805-39N□-T	39/250	10,5,2	65/500	1600	0.100	1100	White
HQC0805-48N□-T	48/200	10,5,2	65/500	1400	0.100	1200	Black
HQC0805-51N□-T	51/200	10,5,2	65/500	1400	0.120	1000	Brown

- When ordering, please specify tolerance and packaging codes. Ex: HQC0805-12NJ-T  
Tolerance : G =  $\pm 2\%$  , J =  $\pm 5\%$  , K =  $\pm 10\%$   
Packaging : Clear tape and reel { standard }.
- L , Q 、 SRF : Agilent/HP E4991A+ Agilent/HP16197A  
(The electrical specification test by the smallest gap position) or HP16193A
- Rdc : DIGITAL MILLIOHM METER Chroma 16502, or equivalent.
- Irms for a 15°C rise above 25°C ambient.
- Operating temperature range from -40°C to 125°C .
- Packaging quantity: 2000 pcs/reel

1st



COLOR CODING

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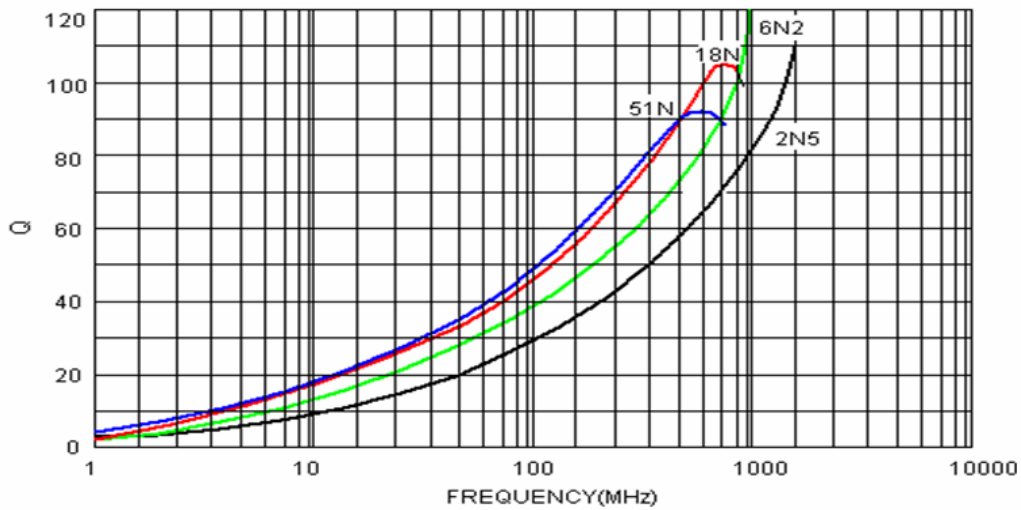
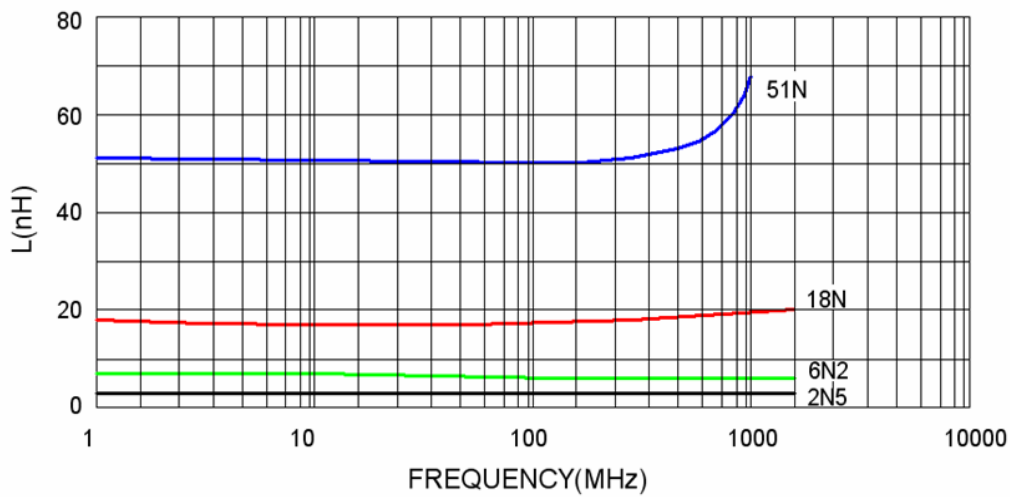
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#### ELECTRICAL CHARACTERISTICS

Characteristics(L,Q vs. Frequency)



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