

## HSC0805-Series

### High Frequency SMD Inductor for Signal Line

#### FEATURES

- Can be used for high frequency bands up to GHz and stable inductance at high frequency.
- The high self resonant frequency realizes high Q value
- Resin-coated surface enables excellent mounting
- Low DC resistance design is ideal for low loss, high output and low power consumption.



#### APPLICATIONS

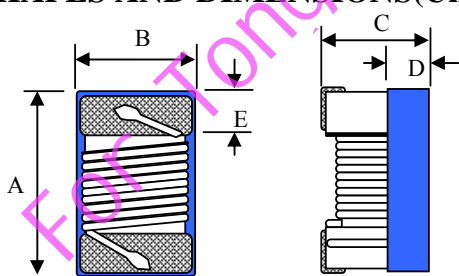
- For high-frequency applications including mobile phones, portable phones, such as PA, ANT, VCO, SAW, etc.
- Mobile phones such as GSM, CDMA, PDC, etc.
- Bluetooth, W-LAN

#### PRODUCT IDENTIFICATION

HSC 0805 - 10N J - T

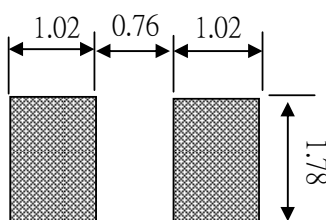
- |                                 |                              |
|---------------------------------|------------------------------|
| (1) Product name                | (4) Tolerance                |
| (2) Shapes and Dimensions (LxW) | G : ±2% ; J : ±5% ; K : ±10% |
| (3) Inductance                  | (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)

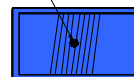


**HSC0805-Series****High Frequency SMD Inductor for Signal Line****ELECTRICAL CHARACTERISTICS**

Our Product Part Number	Inductance (nH)/MHz	Inductance Tolerance	Q/MHz Min.	SRF(Min.) (MHz)	RDC ( $\Omega$ )Max.	Irms Max. (mA)	Color Coding
HSC0805-2N8□-T	2.8/250	J,K	55/1500	7900	0.06	800	Gray
HSC0805-3N0□-T	3.0/250	J,K	55/1500	7900	0.08	800	White
HSC0805-3N3□-T	3.3/250	J,K	45/1500	7900	0.12	600	Black
HSC0805-5N1□-T	5.1/250	J,K	60/1000	5800	0.06	600	Yellow
HSC0805-5N6□-T	5.6/250	J,K	65/1000	5500	0.08	600	Orange
HSC0805-6N2□-T	6.2/250	J,K	50/1000	5500	0.11	800	Violet
HSC0805-6N8□-T	6.8/250	J,K	50/1000	5500	0.11	600	Brown
HSC0805-7N5□-T	7.5/250	J,K	50/1000	4500	0.14	600	Green
HSC0805-8N2□-T	8.2/250	J,K	50/1000	4700	0.16	600	Red
HSC0805-8N7□-T	8.7/250	J,K	50/1000	4700	0.23	600	Violet
HSC0805-10N□-T	10/250	G,J,K	60/500	4200	0.10	600	Blue
HSC0805-12N□-T	12/250	G,J,K	50/500	4000	0.15	600	Orange
HSC0805-15N□-T	15/250	G,J,K	50/500	3400	0.17	700	Yellow
HSC0805-18N□-T	18/250	G,J,K	50/500	3300	0.20	600	Green
HSC0805-22N□-T	22/250	G,J,K	55/500	2600	0.22	500	Blue
HSC0805-24N□-T	24/250	G,J,K	50/500	2000	0.22	500	Gray
HSC0805-27N□-T	27/250	G,J,K	55/500	2500	0.25	500	Violet
HSC0805-33N□-T	33/250	G,J,K	60/500	2050	0.27	500	Gray
HSC0805-36N□-T	36/250	G,J,K	55/500	1700	0.27	500	Orange
HSC0805-39N□-T	39/250	G,J,K	60/500	2000	0.29	500	White
HSC0805-43N□-T	43/200	G,J,K	60/500	1650	0.34	500	Yellow
HSC0805-47N□-T	47/200	G,J,K	60/500	1650	0.31	700	Black
HSC0805-56N□-T	56/200	G,J,K	60/500	1550	0.34	500	Brown
HSC0805-68N□-T	68/200	G,J,K	60/500	1450	0.38	500	Red
HSC0805-75N□-T	75/200	G,J,K	60/500	1400	0.40	400	Violet
HSC0805-82N□-T	82/150	G,J,K	65/500	1300	0.42	400	Orange
HSC0805-91N□-T	91/150	G,J,K	65/500	1200	0.48	400	Black
HSC0805-R10□-T	100/150	G,J,K	65/500	1200	0.46	400	Yellow
HSC0805-R11□-T	110/150	G,J,K	50/250	1000	0.48	400	Brown
HSC0805-R12□-T	120/150	G,J,K	50/250	1100	0.51	400	Green
HSC0805-R15□-T	150/100	G,J,K	50/250	920	0.56	400	Blue
HSC0805-R16□-T	160/100	G,J,K	50/250	900	0.60	400	Gray
HSC0805-R18□-T	180/100	G,J,K	50/250	870	0.64	400	Violet
HSC0805-R20□-T	200/100	G,J,K	50/250	865	0.68	400	Red
HSC0805-R22□-T	220/100	G,J,K	50/250	850	0.70	400	Gray
HSC0805-R24□-T	240/100	G,J,K	44/250	690	1.00	350	Red
HSC0805-R25□-T	250/100	G,J,K	48/250	680	1.00	350	Yellow
HSC0805-R27□-T	270/100	G,J,K	48/250	650	1.00	350	White
HSC0805-R33□-T	330/100	G,J,K	48/250	750	1.40	310	Black
HSC0805-R36□-T	360/100	J,K	48/250	650	1.45	300	Orange
HSC0805-R39□-T	390/100	G,J,K	48/250	560	1.50	290	Brown
HSC0805-R43□-T	430/50	G,J,K	33/100	430	1.70	270	Blue
HSC0805-R47□-T	470/50	G,J,K	30/100	375	1.76	250	Violet
HSC0805-R56□-T	560/25	G,J,K	23/50	340	1.90	230	Orange
HSC0805-R62□-T	620/25	G,J,K	23/50	220	2.20	210	White
HSC0805-R68□-T	680/25	G,J,K	23/50	188	2.20	190	Green
HSC0805-R75□-T	750/25	G,J,K	23/50	200	2.30	180	Violet
HSC0805-R82□-T	820/25	G,J,K	23/50	215	2.35	180	Blue
HSC0805-R91□-T	910/25	J,K	22/50	210	2.40	180	Yellow
HSC0805-1R0□-T	1000/25	G,J,K	22/50	200	2.45	180	Violet
HSC0805-1R2□-T	1200/7.9	G,J,K	16/7.9	160	2.45	170	Green
HSC0805-1R5□-T	1500/7.9	G,J,K	16/7.9	120	2.50	170	Black
HSC0805-1R8□-T	1800/7.9	G,J,K	16/7.9	80	2.50	170	Brown
HSC0805-2R2□-T	2200/7.9	G,J,K	16/7.9	60	2.70	160	Red
HSC0805-2R7□-T	2700/7.9	G,J,K	16/7.9	50	3.80	160	Orange

- When ordering, please specify tolerance and packaging codes. Ex: HSC0805-1R0J-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.

1st Code



COLOR CODING

\* Parts/Reel: 7" 2,000 Tape Width: 8mm

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## HSC0805-Series

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#### ELECTRICAL CHARACTERISTICS

Characteristics(L,Q vs. Frequency)

