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## HSC0603-Series

### High Frequency SMD Inductor for Signal Line

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#### 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

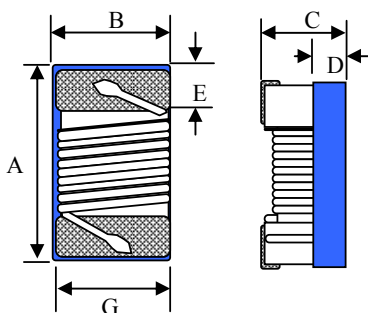
- For high-frequency applications including mobile phones, portable phones, such as PA, ANT, VCO, SAW, etc.
- Mobile phones such as GSM, CDMA, PDC, etc.
- Bluetooth, W-LAN

#### PRODUCT IDENTIFICATION

HSC 0603 - 10N J - T

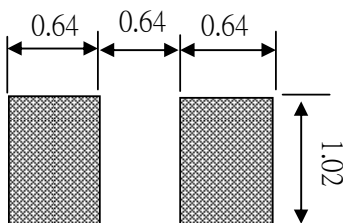
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|---------------------------------|------------------------------|
| (1) Product name                | (4) Tolerance                |
| (2) Shapes and Dimensions (LxW) | G : ±2% ; J : ±5% ; K : ±10% |
| (3) Inductance                  | (6) Taping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

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



A max. :	1.8 mm
B max. :	1.2 mm
C max. :	1.02 mm
D ref. :	0.45 mm
E :	0.33 mm
G :	0.90 mm

#### RECOMMENDED FOOTPRINT(Unit:mm)



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#### ELECTRICAL CHARACTERISTICS

Our Product Part Number	Inductance (nH)/MHz	Inductance Tolerance	Q/MHz Min.	900MHz		1.7GHz		SRF(Min.) (MHz)	RDC ( $\Omega$ )Max.	Irms Max. (mA)	Color Coding
				L typ	Q typ	L typ	Q typ				
HSC0603-1N6□-T	1.6/250	J,K	24/250	1.61	72.86	1.61	89.61	12500	0.030	700	Red
HSC0603-1N8□-T	1.8/250	J,K	16/250	1.77	46.55	1.77	59.72	12500	0.045	700	Black
HSC0603-2N2□-T	2.2/250	J,K	13/250	2.14	26.03	2.13	34.11	12500	0.250	700	Yellow
HSC0603-3N3□-T	3.3/250	J,K	30/250	3.42	73.45	3.46	95.36	5900	0.045	700	Blue
HSC0603-3N6□-T	3.6/250	J,K	22/250	3.68	64.2	3.73	82.77	5900	0.063	700	Red
HSC0603-3N9□-T	3.9/250	J,K	22/250	3.90	50.11	3.94	67.32	6900	0.080	700	Brown
HSC0603-4N3□-T	4.3/250	J,K	22/250	4.44	67.5	4.59	81.57	5900	0.063	700	Orange
HSC0603-4N7□-T	4.7/250	J,K	20/250	4.65	58.79	4.75	75.36	5800	0.085	700	Violet
HSC0603-5N1□-T	5.1/250	J,K	20/250	5.07	54.5	5.21	70.06	5700	0.115	700	Green
HSC0603-5N6□-T	5.6/250	J,K	20/250	5.48	43.67	5.66	55.16	5800	0.160	700	Black
HSC0603-6N3□-T	6.3/250	J,K	26/250	6.54	68.68	6.71	88.51	5700	0.115	700	White
HSC0603-6N8□-T	6.8/250	J,K	27/250	6.89	62.87	7.08	82.33	5800	0.125	700	Red
HSC0603-7N5□-T	7.5/250	J,K	28/250	7.57	65.18	7.84	85.57	4800	0.115	700	Brown
HSC0603-8N2□-T	8.2/250	J,K	30/250	8.13	65.01	8.47	82.23	4700	0.125	700	Orange
HSC0603-8N7□-T	8.7/250	J,K	28/250	8.76	63.94	9.22	76.37	4600	0.109	700	Yellow
HSC0603-9N1□-T	9.1/250	J,K	28/250	9.21	62.29	9.77	75.88	4600	0.120	700	Black
HSC0603-9N5□-T	9.5/250	J,K	28/250	9.79	62.25	10.58	69.16	5400	0.145	700	Blue
HSC0603-10N□-T	10/250	G,J,K	31/250	10.36	69.22	10.81	90.90	4800	0.145	700	Orange
HSC0603-11N□-T	11/250	G,J,K	30/250	11.22	67.67	11.80	85.69	4000	0.145	700	Gray
HSC0603-12N□-T	12/250	G,J,K	35/250	12.37	69.26	13.22	83.39	4000	0.140	700	Yellow
HSC0603-15N□-T	15/250	G,J,K	35/250	15.22	76.65	16.37	88.93	4000	0.180	700	Green
HSC0603-16N□-T	16/250	G,J,K	34/250	16.6	79.11	18.38	79.94	3300	0.170	700	White
HSC0603-18N□-T	18/250	G,J,K	35/250	18.44	76.19	20.05	80.07	3100	0.180	700	Blue
HSC0603-19N□-T	19/250	G,J,K	35/250	19.71	73.77	23.35	62.78	3000	0.190	700	Brown
HSC0603-20N□-T	20/250	G,J,K	38/250	20.5	79.78	23.27	86.77	3000	0.180	700	Red
HSC0603-22N□-T	22/250	G,J,K	38/250	22.66	78.78	25.67	83.99	3000	0.190	700	Violet
HSC0603-23N□-T	23/250	G,J,K	38/250	24.19	70.88	28.48	72.86	2850	0.205	700	Orange
HSC0603-24N□-T	24/250	G,J,K	36/250	25.74	70.93	31.01	63.21	2650	0.205	700	Black
HSC0603-25N□-T	25/250	G,J,K	38/250	25.93	84.76	29.73	89.52	2800	0.210	600	Yellow
HSC0603-27N□-T	27/250	G,J,K	40/250 50/250	29.03	59.83	37.43	46.06	2800	0.220	600	Gray
HSC0603-30N□-T	30/250	G,J,K	37/250	32.91	68.96	41.66	59.67	2250	0.220	600	Brown
HSC0603-33N□-T	33/250	G,J,K	40/250	35.72	61.57	47.39	50.44	2300	0.220	600	White
HSC0603-36N□-T	36/250	G,J,K	37/250	39.45	64.02	50.92	59.84	2080	0.250	600	Red
HSC0603-39N□-T	39/250	G,J,K	40/250	42.71	61.22	58.42	47.55	2200	0.260	600	Black
HSC0603-43N□-T	43/250	G,J,K	38/250	47.21	62.53	64.17	53.05	2000	0.280	600	Orange
HSC0603-47N□-T	47/200	G,J,K	38/200	51.82	52.98	77.03	39.17	2000	0.280	600	Brown
HSC0603-51N□-T	51/200	G,J,K	38/250	59.27	50.95	103.8	23.61	2130	0.300	600	Violet
HSC0603-56N□-T	56/200	G,J,K	38/200	64.38	51.47	108.1	28.82	1900	0.310	600	Red
HSC0603-62N□-T	62/200	G,J,K	37/200	73.3	42.68	156.5	16.15	1800	0.330	600	Gray
HSC0603-68N□-T	68/200	G,J,K	37/200	80.23	44.33	174.0	18.31	1700	0.340	600	Orange
HSC0603-72N□-T	72/150	G,J,K	34/150	86.67	41.11	212.9	15.59	1700	0.490	400	Yellow
HSC0603-79N□-T	79/150	G,J,K	34/150	87.02	44.18	—	—	1700	0.500	400	White
HSC0603-82N□-T	82/150	G,J,K	34/150	101.2	37.88	300.6	11.78	1700	0.540	400	Green
HSC0603-91N□-T	91/150	G,J,K	34/150	111.8	49.36	—	—	1500	0.560	400	Brown
HSC0603-R10□-T	100/150	G,J,K	34/150	126.9	36.13	—	—	1400	0.580	400	Blue
HSC0603-R11□-T	110/150	G,J,K	32/150	146.8	34.58	—	—	1350	0.610	300	Violet
HSC0603-R12□-T	120/150	G,J,K	32/150	166.8	28.57	—	—	1300	0.650	300	Gray
HSC0603-R13□-T	13/150	G,J,K	32/150	180.1	36.93	—	—	1200	0.750	280	Orange
HSC0603-R15□-T	150/150	G,J,K	28/150	234.9	21.92	—	—	990	0.920	280	White
HSC0603-R17□-T	170/100	G,J,K	25/100	228.4	34.96	—	—	990	1.150	240	Yellow
HSC0603-R18□-T	180/100	G,J,K	25/100	289.1	19.93	—	—	990	1.250	240	Black
HSC0603-R19□-T	190/100	G,J,K	25/100	279.1	30.83	—	—	990	1.350	200	Green
HSC0603-R20□-T	200/100	G,J,K	25/100	—	—	—	—	990	1.500	200	Orange
HSC0603-R22□-T	220/100	G,J,K	25/100	—	—	—	—	990	1.600	250	Brown
HSC0603-R24□-T	240/100	G,J,K	25/100	—	—	—	—	990	1.900	200	Violet
HSC0603-R27□-T	270/100	G,J,K	24/100	—	—	—	—	990	2.000	170	Red
HSC0603-R33□-T	330/100	G,J,K	25/100	—	—	—	—	990	2.750	100	Blue
HSC0603-R34□-T	340/100	G,J,K	25/100	—	—	—	—	990	2.900	100	Gray
HSC0603-R39□-T	390/100	G,J,K	25/100	—	—	—	—	990	3.150	100	Yellow
HSC0603-R47□-T	470/100	G,J,K	25/100	—	—	—	—	750	4.000	80	Green

1. When ordering, please specify tolerance and packaging codes. Ex: HSC0603-R39J-T

Tolerance : G =  $\pm 2\%$  , J =  $\pm 5\%$  , K =  $\pm 10\%$

Packaging : Clear tape and reel { standard }.

2. L, Q : Agilent/HP E4991A+ Agilent/HP16197A

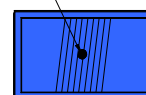
3. SRF : Agilent/HP8753D / Agilent/HP E4991A

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

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

6. Operating temperature range from -40°C to 125°C.

1st Code



\* Parts/Reel: 7" 4,000 Tape Width: 8mm

COLOR CODING

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## HSC0603-Series

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#### ELECTRICAL CHARACTERISTICS

Characteristics(L,Q vs. Frequency)

