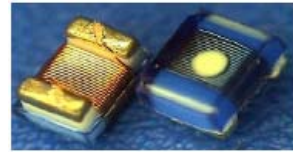


**HSC0603 -Series , Ceramic type****FEATURES**

- Can be used for high frequency bands 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
- Mobile phone such as GSM,CDMA,PDA,etc.
- Bluetooth,W-lan

**PRODUCT IDENTIFICATION****HSC 0603 - 10N - J - E**

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

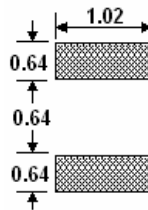
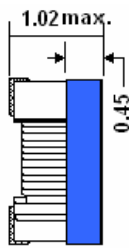
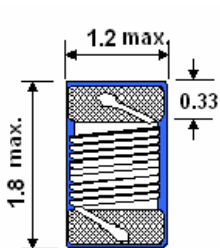
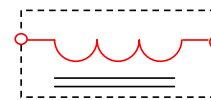
(1) Product name : C : Ceramic type

(2) Type

(3) Inductance , 10N :10nH, 3N3 : 3.3nH

(4) Tolerance: G :±2%, J : ±5%, K : ±10%

(5) Lead free , RoHS compliant.

**SHAPES AND DIMENSIONS (mm)****RECOMMENDED FOOTPRINT****Equivalent circuit****No Polarity**

## HSC0603- Series (0603CS)

Our Product Part Number	Inductance (nH)/MHz	Inductance tolerance	Q Min.	SRF(Min.) (MHz)	Rdc( $\Omega$ ) Max.	Irms(mA) Max.	Color Coding
HSC0603-1N6□-E	1.6/250	J.K	18/250	12500	0.030	700	Red
HSC0603-1N8□-E	1.8/250	J.K	16/250	12500	0.045	700	Black
HSC0603-3N3□-E	3.3/250	J.K	30/250	5900	0.045	700	Blue
HSC0603-3N6□-E	3.6/250	J.K	22/250	5900	0.063	700	Red
HSC0603-3N9□-E	3.9/250	J.K	22/250	6900	0.080	700	Brown
HSC0603-4N3□-E	4.3/250	J.K	22/250	5900	0.063	700	Orange
HSC0603-4N7□-E	4.7/250	J.K	20/250	5800	0.085	700	Violet
HSC0603-5N1□-E	5.1/250	J.K	20/250	5700	0.115	700	Green
HSC0603-5N6□-E	5.6/250	J.K	26/250	5800	0.075	700	Black
HSC0603-6N3□-E	6.3/250	J.K	26/250	5700	0.115	700	White
HSC0603-6N8□-E	6.8/250	J.K	27/250	5800	0.125	700	
HSC0603-7N5□-E	7.5/250	J.K	28/250	4800	0.115	700	Brown
HSC0603-8N2□-E	8.2/250	J.K	30/250	4700	0.125	700	Orange
HSC0603-8N7□-E	8.7/250	J.K	28/250	4600	0.109	700	Yellow
HSC0603-9N5□-E	9.5/250	J.K	28/250	5400	0.145	700	Blue
HSC0603-10N□-E	10/250	G.J.K	31/250	4800	0.145	700	Orange
HSC0603-11N□-E	11/250	G.J.K	30/250	4000	0.145	700	Gray
HSC0603-12N□-E	12/250	G.J.K	35/250	4000	0.145	700	Yellow
HSC0603-15N□-E	15/250	G.J.K	35/250	4000	0.180	700	Green
HSC0603-16N□-E	16/250	G.J.K	34/250	3300	0.170	700	White
HSC0603-18N□-E	18/250	G.J.K	35/250	3100	0.180	700	Blue
HSC0603-22N□-E	22/250	G.J.K	38/250	3000	0.205	700	Violet
HSC0603-23N□-E	23/250	G.J.K	38/250	2850	0.205	700	Orange
HSC0603-24N□-E	24/250	G.J.K	36/250	2650	0.205	700	Black
HSC0603-27N□-E	27/250	G.J.K	40/250	2800	0.220	600	Gray
HSC0603-30N□-E	30/250	G.J.K	37/250	2250	0.220	600	Brown
HSC0603-33N□-E	33/250	G.J.K	40/250	2300	0.240	600	White
HSC0603-36N□-E	36/250	G.J.K	37/250	2080	0.250	600	Red
HSC0603-39N□-E	39/250	G.J.K	40/250	2200	0.260	600	Black
HSC0603-43N□-E	43/250	G.J.K	38/250	2000	0.280	600	Orange
HSC0603-47N□-E	47/200	G.J.K	38/200	2000	0.280	600	Brown
HSC0603-56N□-E	56/200	G.J.K	38/200	1900	0.31	600	Red
HSC0603-68N□-E	68/200	G.J.K	37/200	1700	0.34	600	Orange
HSC0603-72N□-E	72/150	G.J.K	34/150	1700	0.49	400	Yellow
HSC0603-82N□-E	82/150	G.J.K	34/150	1700	0.54	400	Green
HSC0603-R10□-E	100/150	G.J.K	34/150	1400	0.58	400	Blue
HSC0603-R11□-E	110/150	G.J.K	32/150	1350	0.61	300	Violet
HSC0603-R12□-E	120/150	G.J.K	32/150	1300	0.75	300	Gray
HSC0603-R15□-E	150/150	G.J.K	28/150	990	0.92	280	White
HSC0603-R18□-E	180/100	G.J.K	25/100	990	1.25	240	Black
HSC0603-R22□-E	220/100	G.J.K	25/100	900	1.7	200	Brown
HSC0603-R27□-E	270/100	G.J.K	24/100	900	2.45	170	Red
HSC0603-R33□-E	330/100	G.J.K	25/100	900	2.75	100	Blue
HSC0603-R39□-E	390/100	G.J.K	25/100	900	3.15	100	Yellow
HSC0603-R47□-E	470/100	G.J.K	25/100	750	4	80	Green

1. When ordering, please specify tolerance and packaging codes. Ex: HSC0805-R12J-E

Tolerance : G=±2% , J=±5% , K=±10%

Packaging: Clear tape and reel (standard) .

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

3. SRF : Agilent/E5071B/Agilent/HP E4991A

4. RDC : DIGITAL MILLIOHM METER Chroma16502, or equivalent.

5. I rms For 15°C rise form 25°C ambient.

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

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



## HSC0603 Characteristics (L,Q vs. Frequency)

