

## CS0603

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## Ceramic Chip Inductor 0603 High Q (1.6nH-390nH)

## Features

Leadless small size inductor wound on high alumina ceramic bodies. High Q factor and self-resonance frequencies, allow excellent operation in GSM frequencies, DECT, cordless communications, wireless LANs, etc.

Operating temperature -40 °C to +125 °C .

Excellent solderability and resistance to soldering heat.

High reliability and easy surface mount assembly.

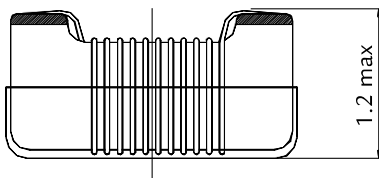
Wide range of inductance values are available for flexible needs.

## Materials

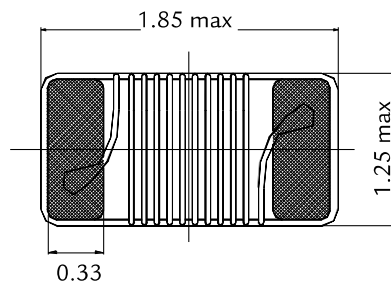
0603 type in High alumina ceramic body  $\text{Al}_2\text{O}_3$  96% .

Metallization: Mo/Mn + Ni (min 2 $\mu\text{m}$ ) + Au flash.

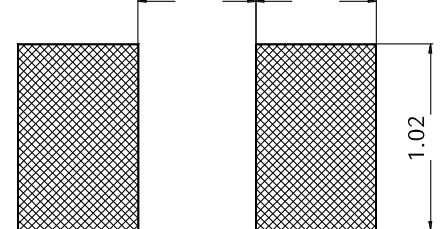
Side view



Bottom view



Pad layout



## Product List

Ordering code <sup>2</sup>	L <sub>r</sub> (nH)	Tolerance <sup>1</sup>	Min Q @900MHz	Typical Q	SRF Min (MHz)	RDC max (Ω)	IDC max (mA)
CS0603 - 1R6+	1,6 @250 MHz	B, S	24	40	1250	0,03	700
CS0603 - 1R8+	1,8 @250 MHz	B, S	16	35	1250	0,045	700
CS0603 - 2R0+	2 @ 250 MHz	B, S	16	31	6900	0,08	700
CS0603 - 3R9+	3,9 @250 MHz	B, S	22	51	6900	0,08	700
CS0603 - 4R3+	4,3 @250 MHz	B, S	22	45	5900	0,08	700
CS0603 - 4R7+	4,7 @250 MHz	B, S	20	47	5800	0,13	700
CS0603 - 5R1+	5,1 @250 MHz	K, J	20	47	5700	0,14	700
CS0603 - 5R6+	5,6 @250 MHz	K, J	16	40	5500	0,15	700
CS0603 - 6R8+	6,8 @250 MHz	K, J, B	30	63	5800	0,11	700
CS0603 - 7R5+	7,5 @250 MHz	K, J, B	28	64	4800	0,106	700
CS0603 - 8R2+	8,2 @250 MHz	K, J, B	30	72	4600	0,1	700
CS0603 - 8R7+	8,7 @250 MHz	K, J	28	66	4600	0,109	700
CS0603 - 9R1+	9,1 @250 MHz	K, J	28	60	4000	0,135	700
CS0603 - 9R5+	9,5 @250 MHz	K, J	28	62	4500	0,135	700
CS0603 - 100+	10 @ 250 MHz	K, J, G	30	66	3800	0,13	700
CS0603 - 110+	11 @ 250 MHz	K, J	33	68	4000	0,09	700
CS0603 - 120+	12 @ 250 MHz	K, J, G	35	72	4000	0,13	700
CS0603 - 130+	13 @ 250 MHz	K, J	38	75	4000	0,106	700
CS0603 - 150+	15 @ 250 MHz	K, J, G	35	68	4000	0,17	700
CS0603 - 160+	16 @ 250 MHz	K, J	34	66	3300	0,17	700
CS0603 - 180+	18 @ 250 MHz	K, J, G	38	77	3100	0,17	700
CS0603 - 200+	20 @ 250 MHz	K, J	38	72	3000	0,22	700

1. Closer tolerances upon request.

2. Replace the + by the code letter for the required inductance tolerance (B=±0.2nH, S=±0.3nH, G=2% [www.DataSheet4U.com](http://www.DataSheet4U.com))

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SMD RF Chip Inductors

## Product List

Ordering code <sup>2</sup>	L <sub>r</sub> (nH)	Tolerance <sup>1</sup>	Min Q @900MHz	Typical Q	SRF Min (MHz)	RDC max (Ω)	IDC max (mA)
CS0603 - 220+	22 @250 MHz	K, J, G	38	70	3000	0,22	700
CS0603 - 240+	24 @250 MHz	K, J	37	75	2650	0,135	700
CS0603 - 270+	27 @250 MHz	K, J, G	40	75	2800	0,22	600
CS0603 - 300+	30 @250 MHz	K, J	45	57	2300	0,22	600
CS0603 - 330+	33 @250 MHz	K, J, G	43	78	2300	0,22	600
CS0603 - 360+	36 @250 MHz	K, J	43	70	2200	0,25	600
CS0603 - 390+	39 @250 MHz	K, J, G	43	66	2200	0,25	600
CS0603 - 430+	43 @250 MHz	K, J	38	62	2000	0,28	600
CS0603 - 470+	47 @200 MHz	K, J, G	40	65	2000	0,28	600
CS0603 - 510+	51 @200 MHz	K, J	40	66	1900	0,31	600
CS0603 - 560+	56 @200 MHz	K, J, G	40	66	1900	0,31	600
CS0603 - 620+	62 @200 MHz	K, J	40	60	1700	0,34	600
CS0603 - 680+	68 @200 MHz	K, J, G	40	57	1700	0,34	600
CS0603 - 720+	72 @150 MHz	K, J, G	35	60	1700	0,49	400
CS0603 - 820+	82 @150 MHz	K, J, G	35	58	1700	0,54	400
CS0603 - 900+	90 @150 MHz	K, J	35	52	1700	0,54	400
CS0603 - 101+	100 @150 MHz	K, J, G	35	51	1400	0,63	400
CS0603 - 111+	110 @150 MHz	K, J, G	35	22	1400	0,63	400
CS0603 - 121+	120 @150 MHz	K, J, G	35	45	1300	0,65	300
CS0603 - 131+	130 @150 MHz	K, J	35	40	1000	0,92	280
CS0603 - 151+	150 @150 MHz	K, J, G	35	33	1000	0,92	280
CS0603 - 181+	180 @100 MHz	K, J, G	30	26	1000	1,25	240
CS0603 - 201+	200 @100 MHz	K, J	30	23	1000	1,25	240
CS0603 - 211+	210 @100 MHz	K, J	27	23	1000	1,7	200
CS0603 - 221+	220 @100 MHz	K, J, G	30	23	1000	1,7	200
CS0603 - 24+1	240 @100 MHz	K, J	30	15	1000	1,7	200
CS0603 - 271+	270 @100 MHz	K, J, G	30	10	1000	1,8	170
CS0603 - 331+	330 @100 MHz	K, J	25	-	450	2	150
CS0603 - 391+	390 @100 MHz	K, J	20	-	350	2	170

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