CS0603

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

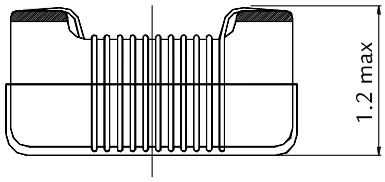
Features

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.

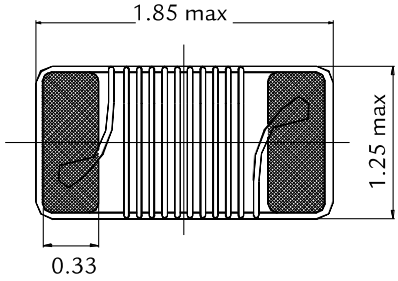
Materials

0603 type in High alumina ceramic body Al_2O_3 96% .
Metallization: Mo/Mn + Ni (min 2µm) + Au flash.

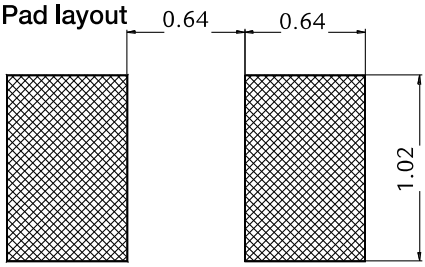
Side view



Bottom view



Pad layout



Product List

Ordering code [2]	L_R (nH)	Tolerance[1]	Q Min @900MHz	Q Typical @900MHz	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%, J=5%, K=10%).

CS0603

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

Product List

Ordering code[2]	L_R (nH)	Tolerance[1]	Q Min @900MHz	Q Typical @900MHz	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

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%, J=5%, K=10%).