

## CS0402

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## Ceramic Chip Inductor 0402 High Q (1nH-120nH)

## Features

Leadless smallest 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 .

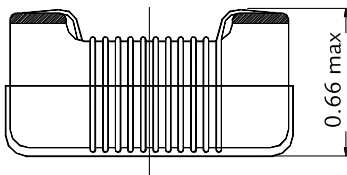
Excellent solderability and resistance to soldering heat.

High reliability and easy surface mount assembly.

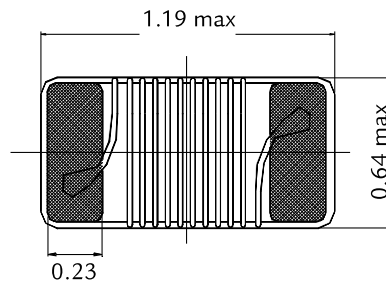
Wide range of inductance values are available for flexible needs.

## Dimensions

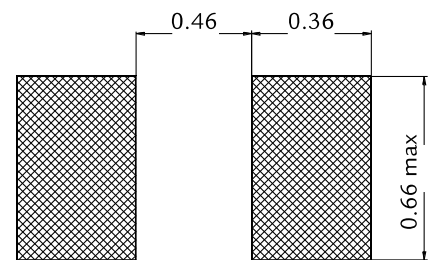
Side view



Bottom view



Pad layout



## Product List

Ordering code <sup>1</sup>	Lr (nH)	Tolerance	Min Q @900MHz	Typical Q	SRF Min (MHz)	RDC max (Ω)	IDC max (mA)
CS0402 - 1R0+	1.0 @250 MHz	B, S	13	26	6000	0,045	1360
CS0402 - 1R9+	1.9 @250 MHz	B, S	16	29	6000	0,07	1040
CS0402 - 2R0+	2.0 @250 MHz	B, S	16	30	6000	0,07	1040
CS0402 - 2R2+	2.2 @250 MHz	B, S	18	32	6000	0,07	960
CS0402 - 2R4+	2.4 @250 MHz	B, S	16	35	6000	0,068	790
CS0402 - 2R7+	2.7 @250 MHz	B, S	16	31	6000	0,12	640
CS0402 - 3R3+	3.3 @250 MHz	K, J, B	20	41	6000	0,066	840
CS0402 - 3R6+	3.6 @250 MHz	K, J, B	20	43	6000	0,066	840
CS0402 - 3R9+	3.9 @250 MHz	K, J, B	20	41	5800	0,066	840
CS0402 - 4R3+	4.3 @250 MHz	K, J, B	18	45	6000	0,091	700
CS0402 - 4R7+	4.7 @250 MHz	K, J, B	15	45	4775	0,13	640
CS0402 - 5R1+	5.1 @250 MHz	K, J, B	23	49	5800	0,083	800
CS0402 - 5R6+	5.6 @250 MHz	K, J, B	23	46	5800	0,083	760
CS0402 - 6R2+	6.2 @250 MHz	K, J, B	23	49	5800	0,083	760
CS0402 - 6R8+	6.8 @250 MHz	K, J, B	20	50	4800	0,083	680
CS0402 - 7R5+	7.5 @250 MHz	K, J, B	25	50	5800	0,104	680
CS0402 - 8R2+	8.2 @250 MHz	K, J, B	25	49	4400	0,104	680
CS0402 - 8R7+	8.7 @250 MHz	K, J, B	18	50	4100	0,2	480
CS0402 - 9R0+	9.0 @250 MHz	K, J, B	25	49	4160	0,104	680
CS0402 - 9R5+	9.5 @250 MHz	K, J, B	18	45	4000	0,2	680
CS0402 - 100+	10 @250 MHz	K, J, G	23	47	3900	0,195	480
CS0402 - 110+	11 @250 MHz	K, J, G	26	56	3680	0,12	640

1. Replace the + by the code letter for the required inductance tolerance (B=±0.15nH, S=±0.3nH, G=2%, J=5%, K=10%, M=20%).

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SMD RF Chip Inductors

## Product List

Ordering code <sup>1</sup>	L <sub>R</sub> (nH)	Tolerance	Min Q @900MHz	Typical Q	SRF Min (MHz)	RDC max (Ω)	IDC max (mA)
CS0402 - 120+	12 @250 MHz	K, J, G	26	51	3600	0,12	640
CS0402 - 130+	13 @250 MHz	K, J, G	24	54	3450	0,21	560
CS0402 - 150+	15 @250 MHz	K, J, G	26	54	3280	0,172	560
CS0402 - 160+	16 @250 MHz	K, J, G	24	54	3100	0,22	560
CS0402 - 180+	18 @250 MHz	K, J, G	25	52	3100	0,23	420
CS0402 - 190+	19 @250 MHz	K, J, G	26	50	3040	0,202	480
CS0402 - 200+	20 @250 MHz	K, J, G	25	51	3000	0,25	420
CS0402 - 220+	22 @250 MHz	K, J, G	25	52	2800	0,3	400
CS0402 - 230+	23 @250 MHz	K, J, G	26	53	2720	0,214	400
CS0402 - 240+	24 @250 MHz	K, J, G	25	51	2700	0,3	400
CS0402 - 270+	27 @250 MHz	K, J, G	26	48	2480	0,298	400
CS0402 - 300+	30 @250 MHz	K, J, G	25	46	2350	0,3	400
CS0402 - 330+	33 @250 MHz	K, J, G	24	48	2350	0,35	400
CS0402 - 360+	36 @250 MHz	K, J, G	26	48	2320	0,403	320
CS0402 - 390+	39 @250 MHz	K, J, G	25	45	2100	0,55	320
CS0402 - 400+	40 @250 MHz	K, J, G	26	48	2240	0,438	320
CS0402 - 430+	43 @250 MHz	K, J, G	25	46	2030	0,81	100
CS0402 - 470+	47 @200 MHz	K, J, G	26	46	2100	0,83	150
CS0402 - 510+	51 @200 MHz	K, J	25	40	1750	0,82	100
CS0402 - 560+	56 @200 MHz	K, J	22	42	1760	0,97	100
CS0402 - 680+	68 @200 MHz	K, J	22	36	1620	1,12	100
CS0402 - 820+	82 @150 MHz	K, J	20	33	1500	1,25	100
CS0402 - 101+	100 @150 MHz	K, J	20	30	1300	2,52	100
CS0402 - 121+	120 @150 MHz	K, J	20	29	1100	2,66	100

1. Replace the + by the code letter for the required inductance tolerance (B=±0.15nH, S=±0.3nH, G=2%, J=5%, K=10%, M=20%).