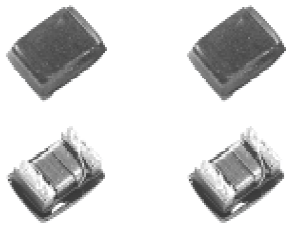
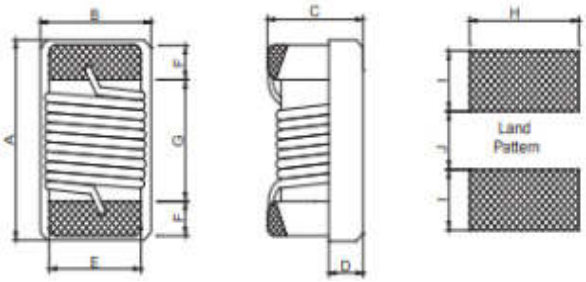
方成电子（东莞）有限公司

Chip Inductors Wire Wound CFN0603CS-Series

- CFN0603CS- Series

1.Dimensions(mm)





- **Introduction And Application**

Wire-wound chip inductors offer the best overall combination of low cost, close tolerance, better Q factor and high SRF than multiplayer chip inductor which are widely used in communication and wireless application
For high-frequency application such as:

- **Test Equipment and Conditions**

Inductance measured by using HP-4286A LCR meter with HP-16193A test fixture.
Q measured with HP-4291B impedance analyzer.
According to EIA-481 standard.

- **Features**

High frequency applications
Close tolerance application. Tolerance of 2% is available for particular inductance values.
Small footprint as well as low profile
High Q factor

NO.	A (max)	B (max)	C (max)	D Typ.	E	F	G	H	I	J
Spec.	1.8	1.12	1.02	0.38	0.76	0.33	0.86	1.02	0.64	0.64

2. Electrical characteristics

Part Number1	Inductance2 (μH)	Tolerance3	Q Min4	900MHz		1.7GHHz		SRF6(min)5 (MHz)	DCR6 max (Ohms)	Irms7 (Ma)
				Ltyp	Qtyp4	Ltyp	Qtyp4			
CFN0603CS-1N6X-L-	1.6@ 250 MHz	5	24	1.67	49	1.65	63	12500	0.030	700
CFN0603CS-1N8X-L-	1.8@ 250 MHz	5	16	1.63	35	1.63	50	12500	0.045	700
CFN0603CS-2N2X-L-	2.2@ 250 MH	5	13	2.22	31	2.24	44	12500	0.250	100
CFN0603CS-3N3X-L-	3.3@ 250 MHz	5.2	35	3.31	75	3.38	88	5900	0.045	700
CFN0603CS-3N6X-L-	3.6@ 250 MHz	5.2	22	3.72	53	3.71	65	5900	0.063	700
CFN0603CS-3N9X-L-	3.9@ 250 MH	5.2	22	3.95	49	3.96	67	6900	0.080	700
CFN0603CS-4N3X-L-	4.3@ 250 MHz	5.2	22	4.32	50	4.33	70	5900	0.063	700
CFN0603CS-4N7X-L-	4.7@ 250 MH	5.2	20	4.72	47	4.75	57	5800	0.116	700
CFN0603CS-5N1X-L-	5.1@ 250 MHz	5.2	20	4.93	47	4.95	56	5700	0.140	700
CFN0603CS-5N6X-L-	5.6@ 250 MH	5.2	20	5.53	56	5.86	77	5800	0.170	700

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Part Number1	Inductance2 (μH)	Tolerance3	Q Min4	900MHz		1.7GHHz		SRF6(min)5 (MHz)	DCR6 max (Ohms)	Irms7 (Ma)
				Ltyp	Qtyp4	Ltyp	Qtyp4			
CFN0603CS-6N8X-L-	6.8@ 250 MHz	5.2	27	6.75	60	7.1	81	5800	0.110	700
CFN0603CS-7N5X-L-	7.5@ 250 MHz	5.2	28	7.7	60	7.82	65	4800	0.106	700
CFN0603CS-8N2X-L-	8.2@ 250 MH	5.2	28	8.3	60	8.5	60	4700	0.109	700
CFN0603CS-8N7X-L-	8.7@ 250 MHz	5.2	28	8.86	62	9.32	58	4600	0.109	700
CFN0603CS-9N5X-L-	9.5@ 250 MHz	5.2	28	9.7	59	9.92	61	5400	0.135	700
CFN0603CS-10NX-L-	10@ 250 MHz	5.2	31	10.00	66	10.6	83	4800	0.130	700
CFN0603CS-11NX-L-	11@ 250 MHz	5.2	33	11	53	11.5	56	4000	0.086	700
CFN0603CS-12NX-L-	12@ 250 MHz	5.2	35	12.3	72	13.5	83	4000	0.130	700
CFN0603CS-15NX-L-	15@ 250 MHz	5.2	35	15.4	64	16.8	89	4000	0.170	700
CFN0603CS-16NX-L-	16@ 250 MHz	5.2	34	16.2	55	17.3	52	3300	0.104	700
CFN0603CS-18NX-L-	18@ 250 MHz	5.2	35	18.7	70	21.4	69	3100	0.170	700
CFN0603CS-22NX-L-	22@ 250 MHz	5.2	38	22.8	73	26.1	71	3000	0.190	700
CFN0603CS-23NX-L-	23@ 250 MHz	5.2	38	24.1	71	28	67	2850	0.190	700
CFN0603CS-24NX-L-	24@ 250 MHz	5.2	37	24.5	45	28.7	39	2650	0.135	700
CFN0603CS-27NX-L-	27@ 250 MHz	5.2	40	29.2	74	34.6	65	2800	0.220	600
CFN0603CS-30NX-L-	30@ 250 MHz	5.2	37	31.4	47	39.9	28	2250	0.144	600
CFN0603CS-33NX-L-	33@ 250 MHz	5.2	40	36	67	49.5	42	2300	0.220	600
CFN0603CS-36NX-L-	36@ 250 MH	5.2	38	39.4	47	52.7	24	2080	0.250	600
CFN0603CS-39NX-L-	39@ 250 MHz	5.2	40	42.7	60	60.2	40	2200	0.250	600
CFN0603CS-43NX-L-	43@ 250 MHz	5.2	39	47	44	64.9	21	2000	0.280	600
CFN0603CS-47NX-L-	47@ 250 MHz	5.2	38	52.5	62	77.2	35	2000	0.280	600
CFN0603CS-51NX-L-	51@ 250 MH	5.2	35	55.5	69	82.2	34	1900	0.270	600
CFN0603CS-56NX-L-	56@ 250 MHz	5.2	38	62.5	56	97	26	1900	0.310	600
CFN0603CS-68NX-L-	68@ 250 MHz	5.2	37	80.5	54	168	21	1700	0.340	600
CFN0603CS-72NX-L-	72@ 150 MHz	5.2	34	82	53	135	20	1700	0.490	400
CFN0603CS-82NX-L-	82@ 150 MHz	5.2	34	96.2	54	177	21	1700	0.540	400
CFN0603CS-R10X-L-	100@ 150 MHz	5.2	34	124	49	-	-	1400	0.580	400
CFN0603CS-R11X-L-	110@ 150 MHz	5.2	32	138	43	-	-	1350	0.610	300
CFN0603CS-R12X-L-	120@ 150 MHz	5.2	32	166	39	-	-	1300	0.750	300
CFN0603CS-R15X-L-	150@ 150 MHz	5.2	28	250	25	-	-	990	0.920	280
CFN0603CS-R18X-L-	180@ 100 MHz	5.2	25	305	22	-	-	990	1.250	240
CFN0603CS-R20X-L-	200@ 100 MH	5.2	25	-	-	-	-	900	1.980	200
CFN0603CS-R21X-L-	210@ 100 MHz	5.2	27	-	-	-	-	895	2.060	200
CFN0603CS-R22X-L-	220@ 100 MHz	5.2	25	-	-	-	-	900	2.100	200
CFN0603CS-R25X-L-	250@ 100 MHz	5.2	25	-	-	-	-	822	3.550	120

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Part Number1	Inductance2 (μH)	Tolerance3	Q Min4	900MHz		1.7GHHz		SRF6(min)5 (MHz)	DCR6 max (Ohms)	Irms7 (Ma)
				Ltyp	Qtyp4	Ltyp	Qtyp4			
CFN0603CS-R27X-L-	270@ 100 MH	5.2	24	-	-	-	-	900	2.300	170
CFN0603CS-R33X-L-	330@ 100 MHz	5.2	25	-	-	-	-	900	3.890	100
CFN0603CS-R39X-L-	390@ 100 MHz	5.2	25	-	-	-	-	900	4.350	100

1. When ordering,please specify tolerance and packaging codes:CFN0603CS-68NJ-R-S-L--FTolerance:G=2% J=5% (Table shows stock tolerances in bold.)
2. Inductance measured at 250MHz using a Fenfa SMD-F testfixture and Fenfa-provided correlation pieces with an Agilent/HP4286 impedance analyzer.
3. Tolerances in bold are stocked for immediate shipment.
4. Q measured using an Agilent/HP 4291A with an Agilent/HP 4287Atest fixture
5. For SRF> 6GHz,measured using an Agilent/HP4287A network analyzer and a Coilcraft SMD-D text fixture. For SRF-6GHz,Measured using an Agilent/HP 4287A network analyzer and a Fenfa SMD-D test fixture.
6. DCR measured on a micro-ohmmeter.
7. Average current for a 15℃rise above 25℃ambient
8. Operating temperature range-25℃ to +125℃.
9. Electrical specifications at 25℃.

See Qualification Standards section for environmental and test data.

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