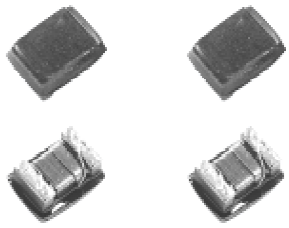
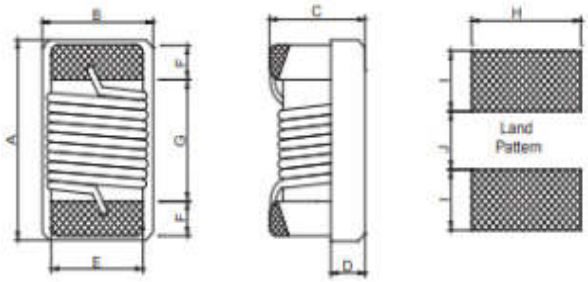
方成电子（东莞）有限公司

Chip Inductors Wire Wound CFN1008CS-Series

- CFN1008CS- 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.	2.92	2.79	2.03	0.51	2.03	0.51	1.52	2.54	1.02	1.27

2. Electrical characteristics

Part Number1	Part Number1	Tolerance3	Q min4	SRF min5 (MHz)	DCR max (Ohms)	IRMS7 (mA)
CFN1008CS-10NX-B-	10@ 50 MHz	10.5.2	50@ 500 MHz	4100	0.08	1000
CFN1008CS-12NX-B-	12@ 50 MHz	10.5.2	50@ 500 MHz	3300	0.09	1000
CFN1008CS-15NX-B-	15@ 50 MHz	10.5.2	50@ 500 MHz	2500	0.1	1000
CFN1008CS-18NX-B-	18@ 50 MHz	10.5.2	50@ 350 MHz	2500	0.11	1000
CFN1008CS-22MX-B-	22@ 50 MHz	10.5.2	55@ 350 MHz	2400	0.12	1000
CFN1008CS-27NX-B-	27@ 50 MHz	10.5.2	55@ 350 MHz	1600	0.13	1000
CFN1008CS-33NX-B-	33@ 50 MH	10.5.2	60@ 350 MH	1600	0.14	1000
CFN1008CS-39NX-B-	39@ 50 MHz	10.5.2	60@ 350 MHz	1500	0.15	1000
CFN1008CS-47NX-B-	47@ 50 MHz	10.5.2	65@ 350 MHz	1500	0.16	1000
CFN1008CS-56NX-B-	56@ 50 MHz	10.5.2	65@ 350 MHz	1300	0..18	1000
CFN1008CS-68NX-B-	68@ 50 MHz	10.5.2	65@ 350 MHz	1300	0.2	1000
CFN1008CS-82NX-B-	82@ 50 MHz	10.5.2	60@ 350 MHz	1000	0.22	1000

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Part Number1	Part Number1	Tolerance3	Q min4	SRF min5 (MHz)	DCR max (Ohms)	IRMS7 (mA)
CFN1008CS-R10X-B-	100@ 25 MHz	10.5.2	60@ 350 MHz	1000	0.56	6500
CFN1008CS-R12X-B-	120@ 25 MHz	10.5.2	60@ 350 MHz	950	0.63	650
CFN1008CS-R15X-B-	150@ 25 MHz	10.5.2	45@ 100 MHz	850	0.7	580
CFN1008CS-R18X-B-	180@ 25 MHz	10.5.2	45@ 100 MHz	750	0.77	620
CFN1008CS-R22X-B-	220@ 25 MHz	10.5.2	45@ 100 MHz	700	0.84	500
CFN1008CS-R27X-B-	270@ 25 MH	10.5.2	45@ 100 MHz	600	0.91	500
CFN1008CS-R33X-B-	330@ 25 MH	10.5.2	45@ 100 MH	570	1.05	450
CFN1008CS-R39X-B-	390@ 25 MHz	10.5.2	45@ 100 MHz	500	1.12	470
CFN1008CS-R47X-B-	470@ 25 MHz	10.5.2	45@ 100 MHz	450	1.19	470
CFN1008CS-R56X-B-	560@ 25 MHz	10.5.2	45@ 100 MHz	415	1.33	400
CFN1008CS-R62X-B-	620@ 25 MHz	10.5.2	45@ 100 MHz	375	1.4	300
CFN1008CS-R68X-B-	680@ 25 MHz	10.5.2	45@ 100 MHz	375	1.47	400
CFN1008CS-R75X-B-	750@ 25 MHz	10.5.2	45@ 100 MHz	360	1.54	360
CFN1008CS-R82X-B-	820@ 25 MHz	10.5.2	45@ 100 MHz	350	1.61	400
CFN1008CS-R91X-B-	910@ 25 MHz	10.5.2	35@ 50 MHz	320	1.68	480
CFN1008CS-1R0X-B-	1000@ 25 MHz	10.5.2	35@ 50 MHz	290	1.75	370
CFN1008CS-1R2X-B-	1200@ 25 MHz	10.5.2	35@ 50 MHz	250	2.0	310
CFN1008CS-1R5X-B-	1500@ 7.9 MHz	10.5.2	28@ 50 MHz	200	2.30	330
CFN1008CS-1R8X-B-	1800@ 7.9 MHz	10.5.2	28@ 50 MHz	160	2.6	300
CFN1008CS-2R2X-B-	2200@ 7.9 MHz	10.5.2	28@ 50 MHz	160	2.80	280
CFN1008CS-2R7X-B-	2700@ 7.9 MHz	10.5.2	22@ 50 MHz	140	3.2	290
CFN1008CS-3R3X-B-	3300@ 7.9 MHz	10.5.2	22@ 50 MHz	110	3.40	290
CFN1008CS-3R9X-B-	3900@ 7.9 MHz	10.5.2	20@ 50 MHz	100	3.6	260
CFN1008CS-4R7X-B-	4700@ 7.9 MHz	10.5.2	20@ 50 MHz	90	4.0	260
CFN1008CS-5R6X-B-	5600@ 7.9 MH	10.5.2	18@ 7.9 MH	45	4.0	240
CFN1008CS-6R8X-B-	6800@ 7.9 MHz	10.5.2	18@ 7.9 MHz	40	4.9	200
CFN1008CS-8R2X-B-	8200@ 7.9 MHz	10.5.2	18@ 7.9 MHz	25	6.0	170
CFN1008CS-100X-B-	10000@ 2.52 MHz	10.5.2	18@ 7.9 MHz	25	8.0	150

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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