

**NEW!**

Chip Inductors - 0201CS Series (0503)

- 0201 size – World's smallest wirewound inductor
- 26 inductance values from 0.5 to 14 nH
- High Q values – up to 64 at 1.7 GHz!

Request free evaluation samples by contacting Coilcraft or visiting www.coilcraft.com.

Part number ¹	Inductance ² (nH)	Percent tolerance	900 MHz		1.7 GHz		SRF typ ⁴ (GHz)	DCR max ⁵ (Ohms)	I _{rms} ⁶ (mA)
			L typ	Q typ ³	L typ	Q typ ³			
0201CS-0N5XKL_	0.5	10	0.50	29	0.49	43	>26	0.015	1400
0201CS-0N6XKL_	0.6	10	0.58	31	0.58	51	>26	0.024	1150
0201CS-1N2XJL_	1.2	5	1.16	42	1.16	60	24.6	0.027	1050
0201CS-1N3XJL_	1.3	5	1.24	38	1.24	57	26.0	0.034	960
0201CS-1N4XJL_	1.4	5	1.35	27	1.34	37	25.8	0.068	680
0201CS-1N5XJL_	1.5	5	1.47	28	1.47	40	25.8	0.086	640
0201CS-2N3XJL_	2.3	5	2.28	45	2.28	64	16.5	0.039	860
0201CS-2N4XJL_	2.4	5	2.36	35	2.36	53	19.1	0.062	730
0201CS-2N5XJL_	2.5	5	2.50	31	2.49	44	19.3	0.124	520
0201CS-3N3XJL_	3.3	5	3.31	42	3.32	62	14.8	0.051	700
0201CS-3N7XJL_	3.7	5	3.65	39	3.66	58	13.0	0.064	680
0201CS-3N8XJL_	3.8	5	3.81	38	3.81	60	13.0	0.102	570
0201CS-3N9XJL_	3.9	5	3.89	35	3.89	50	14.6	0.128	520
0201CS-4N8XJL_	4.8	5	4.83	34	4.83	50	11.2	0.063	730
0201CS-5N2XJL_	5.2	5	5.21	36	5.21	55	12.7	0.126	520
0201CS-5N5XJL_	5.5	5	5.49	35	5.49	50	11.0	0.200	400
0201CS-6N7XJL_	6.7	5	6.71	40	6.72	59	10.1	0.094	590
0201CS-7N0XJL_	7.0	5	6.97	39	6.97	60	10.7	0.149	440
0201CS-7N5XJL_	7.5	5	7.44	36	7.46	50	11.8	0.238	360
0201CS-8N7XJL_	8.7	5	8.68	38	8.74	59	9.4	0.139	500
0201CS-9N0XJL_	9.0	5	9.02	42	9.04	63	9.7	0.173	400
0201CS-9N4XJL_	9.4	5	9.38	36	9.39	51	8.9	0.218	370
0201CS-9N6XJL_	9.6	5	9.62	38	9.64	53	9.1	0.276	320
0201CS-11NXJL_	11.0	5	11.11	40	11.15	62	8.5	0.197	340
0201CS-12NXJL_	12.0	5	12.15	39	12.20	56	7.8	0.248	330
0201CS-14NXJL_	14.0	5	14.13	37	14.37	51	7.2	0.278	320

1. When ordering, please specify **termination** and **packaging** codes:

0201CS-14NXJL W

Termination: L = RoHS compliant silver-platinum-glass frit.
Special order: S = non-RoHS tin-lead (63/37).

Packaging: W = 7" machine-ready reel. EIA-481 punched paper tape (2000 parts per full reel).

U = Less than full reel. In tape, but not machine ready.
To have a leader and trailer added (\$25 charge), use code letter W instead.

- Inductance measured at 250 MHz using a Coilcraft SMD-F fixture in an Agilent/HP 4286 impedance analyzer with Coilcraft-provided correlation pieces.
- Q measured using an Agilent/HP 4291A with an Agilent/HP 16197 test fixture.
- SRF measured using an Agilent/HP 8722ES network analyzer and a test fixture with a 0.010" air gap.
- DCR measured on a micro-ohmmeter and a Coilcraft CCF858 test fixture.
- Current that causes a 15°C temperature rise from 25°C ambient. See Qualification Standards section for environmental and test data. Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

Designer's Kit C368 contains 20 each of all values

Core material Ceramic

Terminations RoHS compliant silver-palladium-platinum-glass frit. Other terminations available at additional cost.

Weight 0.14 – 0.23 mg

Ambient temperature –40°C to +125°C with I_{rms} current, +125°C to +140°C with derated current

Storage temperature Component: –40°C to +140°C.
Packaging: –55°C to +80°C

Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

Temperature Coefficient of Inductance (TCL) +25 to +125 ppm/°C

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

Mean Time Between Failures (MTBF) 1 billion hours

Packaging 2000 per 7" reel. Paper tape: 8 mm wide, 0.5 mm thick, 2 mm pocket spacing

PCB washing Only pure water or alcohol recommended

Coilcraft®

Specifications subject to change without notice.
Please check our website for latest information.

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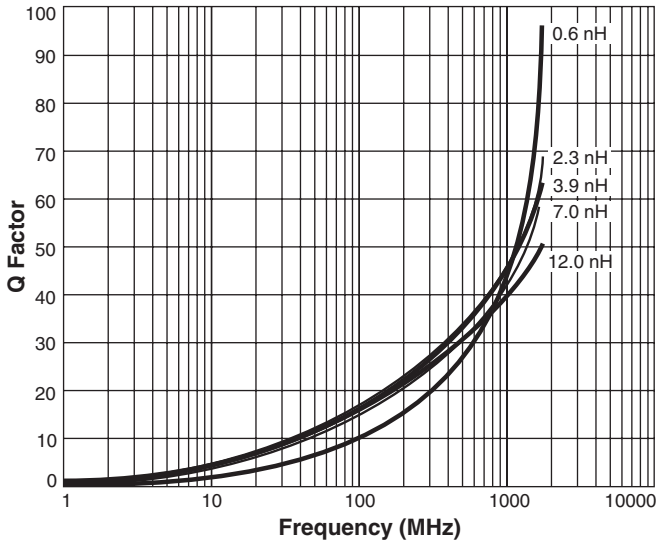
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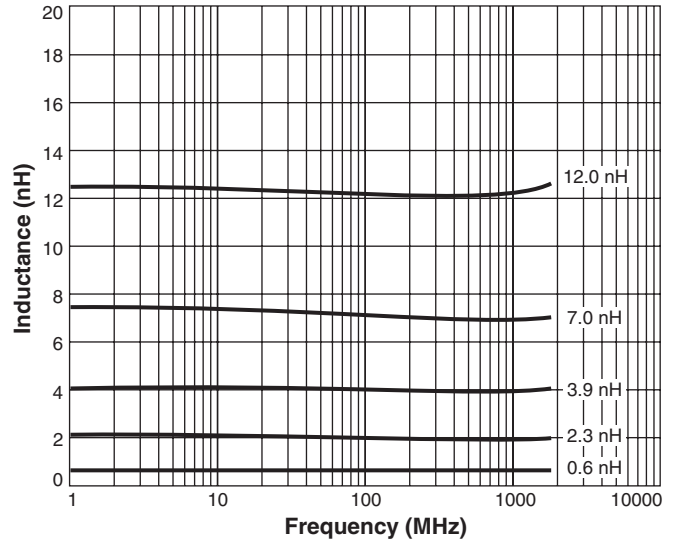
NEW!

0201CS Series (0503)

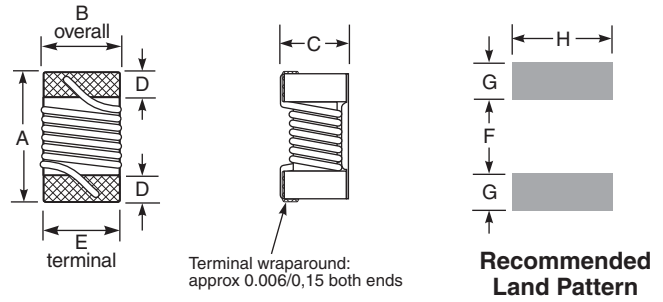
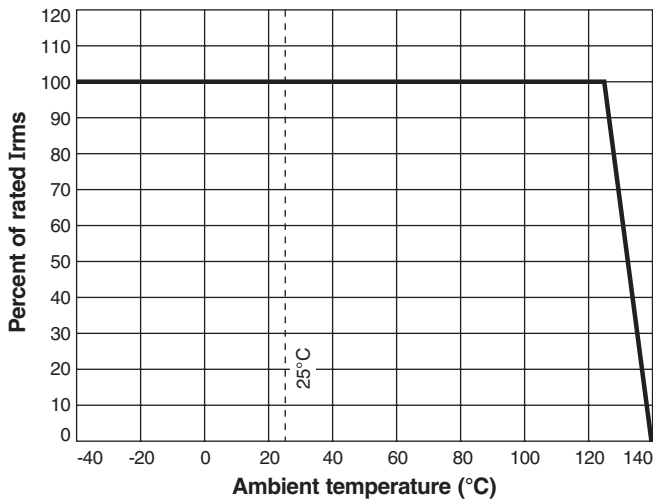
Typical Q vs Frequency



Typical L vs Frequency



Irms Derating



A max	B max	C max	D	E	F	G	H
0.022	0.014	0.018	0.004	0.010	0.009	0.007	0.013 inches
0,56	0,36	0,46	0,10	0,25	0,23	0,18	0,33 mm

S-Parameter files
ON OUR WEB SITE OR CD
SPICE models
ON OUR WEB SITE OR CD



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Please check our website for latest information.

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