



Chip Inductors - 0805CS (2012)

- Exceptional Q values, even at high frequencies
- Tight tolerances – 2% for most; 1% for some values
- Wirewound construction provides the highest SRFs in 0805 size

Part number ¹	Inductance ² (nH)	Percent tolerance ³	Q min ⁴	SRF typ ⁵ (MHz)	DCR max ⁶ (Ohms)	Irms ⁷ (mA)	Color code
0805CS-020XJL_	2.8 @ 250 MHz	5	80 @ 1500 MHz	12200	0.06	800	Gray
0805CS-3N0XJL_	3.0 @ 250 MHz	5	65 @ 1500 MHz	12200	0.06	800	White
0805CS-030XJL_	3.3 @ 250 MHz	5	50 @ 1500 MHz	12200	0.08	600	Black
0805CS-050XJL_	5.6 @ 250 MHz	5	65 @ 1000 MHz	5900	0.08	600	Orange
0805CS-060XJL_	6.8 @ 250 MHz	5	50 @ 1000 MHz	5600	0.11	600	Brown
0805CS-070XJL_	7.5 @ 250 MHz	5	50 @ 1000 MHz	4800	0.14	600	Green
0805CS-080X_L_	8.2 @ 250 MHz	5,2	50 @ 1000 MHz	4400	0.12	600	Red
0805CS-100X_L_	10 @ 250 MHz	5,2	60 @ 500 MHz	4300	0.10	600	Blue
0805CS-120X_L_	12 @ 250 MHz	5,2	50 @ 500 MHz	4000	0.15	600	Orange
0805CS-150X_L_	15 @ 250 MHz	5,2	50 @ 500 MHz	3200	0.17	600	Yellow
0805CS-180X_L_	18 @ 250 MHz	5,2	50 @ 500 MHz	3100	0.20	600	Green
0805CS-220X_L_	22 @ 250 MHz	5,2	55 @ 500 MHz	2600	0.22	500	Blue
0805CS-240X_L_	24 @ 250 MHz	5,2	50 @ 500 MHz	2400	0.22	500	Gray
0805CS-270X_L_	27 @ 250 MHz	5,2	55 @ 500 MHz	2580	0.25	500	Violet
0805CS-330X_L_	33 @ 250 MHz	5,2,1	60 @ 500 MHz	2150	0.27	500	Gray
0805CS-360X_L_	36 @ 250 MHz	5,2,1	55 @ 500 MHz	1900	0.27	500	Orange
0805CS-390X_L_	39 @ 250 MHz	5,2,1	60 @ 500 MHz	2000	0.29	500	White
0805CS-430X_L_	43 @ 200 MHz	5,2,1	60 @ 500 MHz	1800	0.34	500	Yellow
0805CS-470X_L_	47 @ 200 MHz	5,2,1	60 @ 500 MHz	1700	0.31	500	Black
0805CS-560X_L_	56 @ 200 MHz	5,2,1	60 @ 500 MHz	1600	0.34	500	Brown
0805CS-680X_L_	68 @ 200 MHz	5,2,1	60 @ 500 MHz	1500	0.38	500	Red
0805CS-820X_L_	82 @ 150 MHz	5,2,1	65 @ 500 MHz	1330	0.42	400	Orange
0805CS-910X_L_	91 @ 150 MHz	5,2,1	65 @ 500 MHz	1330	0.48	400	Black
0805CS-101X_L_	100 @ 150 MHz	5,2,1	65 @ 500 MHz	1250	0.46	400	Yellow
0805CS-111X_L_	110 @ 150 MHz	5,2	50 @ 250 MHz	1100	0.48	400	Brown
0805CS-121X_L_	120 @ 150 MHz	5,2,1	50 @ 250 MHz	1100	0.51	400	Green
0805CS-151X_L_	150 @ 100 MHz	5,2,1	50 @ 250 MHz	920	0.56	400	Blue
0805CS-181X_L_	180 @ 100 MHz	5,2,1	50 @ 250 MHz	920	0.64	400	Violet
0805CS-221X_L_	220 @ 100 MHz	5,2	50 @ 250 MHz	820	0.70	400	Gray
0805CS-241X_L_	240 @ 100 MHz	5,2	44 @ 250 MHz	770	1.00	350	Red
0805CS-271X_L_	270 @ 100 MHz	5,2	48 @ 250 MHz	730	1.00	350	White
0805CS-331X_L_	330 @ 100 MHz	5,2	48 @ 250 MHz	650	1.40	310	Black
0805CS-391X_L_	390 @ 100 MHz	5,2	48 @ 250 MHz	600	1.50	290	Brown
0805CS-471X_L_	470 @ 50 MHz	5,2	33 @ 100 MHz	375	1.76	250	Violet
0805CS-561X_L_	560 @ 25 MHz	5,2	23 @ 50 MHz	330	1.90	230	Orange
0805CS-681X_L_	680 @ 25 MHz	5,2	23 @ 50 MHz	310	2.20	190	Green
0805CS-821X_L_	820 @ 25 MHz	5,2	23 @ 50 MHz	310	2.35	180	Blue

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

0805CS-821XGLC

Tolerance: F = 1% G = 2% J = 5%

(Table shows stock tolerances in bold.)

Termination: L = RoHS compliant silver-palladium-platinum-glass frit.

E = Halogen free component. RoHS compliant silver-palladium-platinum-glass frit terminations.

Special order: T = RoHS tin-silver-copper (95.5/4/0.5) or S = non-RoHS tin-lead (63/37).

Packaging: C = 7" machine-ready reel. EIA-481 embossed plastic tape (2000 parts per full reel).

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

D = 13" machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (7500 parts per full reel).

2. Inductance measured using a Coilcraft SMD-A fixture in an Agilent/HP 4286A impedance analyzer with Coilcraft-provided correlation pieces.

3. Tolerances in bold are stocked for immediate shipment.

4. Q measured using an Agilent/HP 4291A with an Agilent/HP 16193 test fixture.

5. SRF measured using an Agilent/HP 8720D network analyzer and a Coilcraft SMD-D test fixture.

6. DCR measured on a Cambridge Technology micro-ohmmeter and a Coilcraft CCF858 test fixture.

7. Current that causes a 15°C temperature rise from 25°C ambient.

8. Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



www.coilcraft.com

US +1-847-639-6400 sales@coilcraft.com
 UK +44-1236-730595 sales@coilcraft-europe.com
 Taiwan +886-2-2264 3646 sales@coilcraft.com.tw
 China +86-21-6218 8074 sales@coilcraft.com.cn
 Singapore +65-6484 8412 sales@coilcraft.com.sg

Document 100-1 Revised 01/11/12

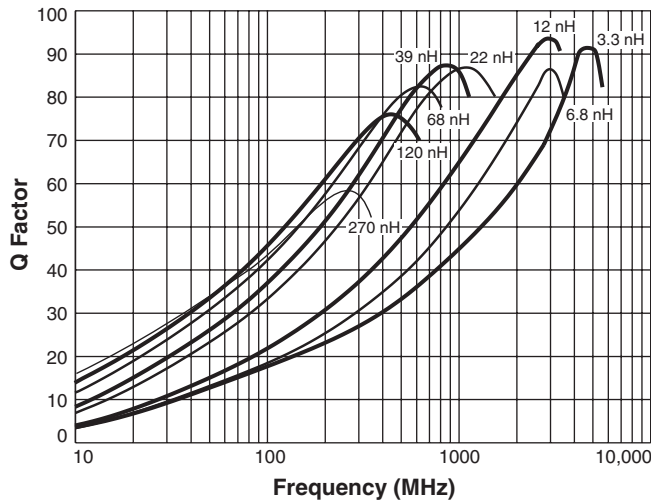
© Coilcraft Inc. 2013

This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.

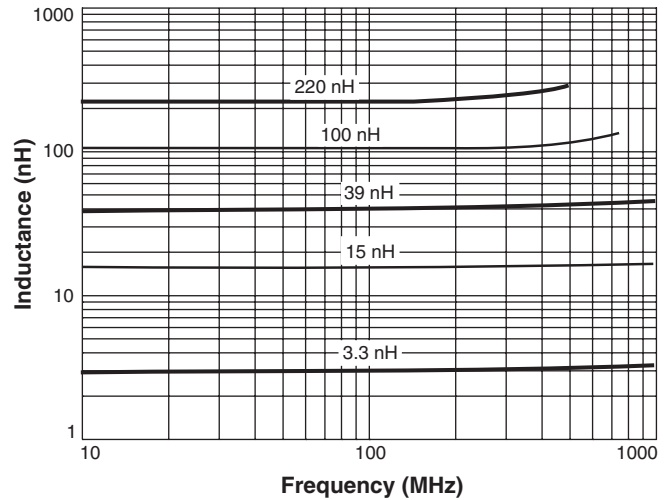


0805CS Series (2012)

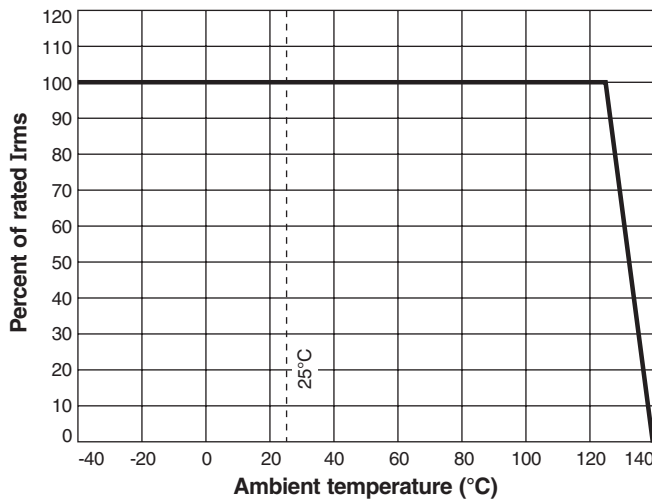
Typical Q vs Frequency



Typical L vs Frequency



Irms Derating



Designer's Kit C303 contains 10 of each 5% part
Designer's Kit C303-2 contains 10 of each 2% part

Core material Ceramic

Environmental RoHS compliant, halogen free optional

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

Weight 10.2 – 11.6 mg

Ambient temperature –40°C to +125°C with Irms current, +125°C to +140°C with derated current

Storage temperature Component: –40°C to +140°C.
 Tape and reel packaging: –40°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) +100 to +250 ppm/°C

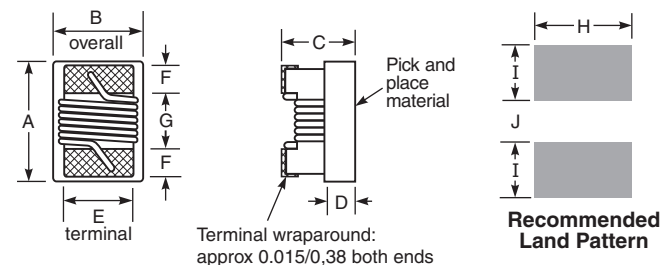
Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

Failures in Time (FIT) / Mean Time Between Failures (MTBF)

One per billion hours / one billion hours, calculated per Telcordia SR-332

Packaging 2000/7" reel; 7500/13" reel. Plastic tape: 8 mm wide, 0.23 mm thick, 4 mm pocket spacing, 1.65 mm pocket depth

PCB washing Tested with pure water or alcohol only. For other solvents, see Doc787_PCB_Washing.pdf



A max	B max	C max	D ref	E	F	G	H	I	J
0.090	0.068	0.060	0.020	0.050	0.020	0.040	0.070	0.040	0.030
2,29	1,73	1,52	0,51	1,27	0,51	1,02	1,78	1,02	0,76
mm									

Note: Height dimension (C) is before optional solder application. For maximum height dimension including solder, add 0.006 in / 0,152 mm.

COILCRAFT ACCURATE
 PRECISION REPEATABLE
 MEASUREMENTS
 TEST FIXTURES
 SEE WEB SITE



www.coilcraft.com

US +1-847-639-6400 sales@coilcraft.com
UK +44-1236-730595 sales@coilcraft-europe.com
Taiwan +886-2-2264 3646 sales@coilcraft.com.tw
China +86-21-6218 8074 sales@coilcraft.com.cn
Singapore + 65-6484 8412 sales@coilcraft.com.sg

Document 100-2 Revised 01/11/12

© Coilcraft Inc. 2013

This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.