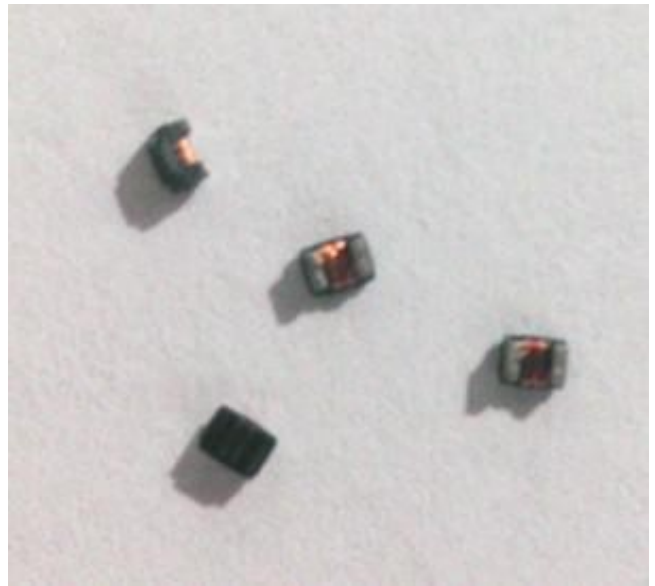


WIRE WOUND CHIP FERRITE INDUCTORS

J1206LS SERIES



FEATURES/APPLICATOINS

- .Carrier tape packing use for SMT
- .Can be used in a wide range of frequency to suppress EMI
- .Excellent solder ability
- .Suitable for reflow STM craft soldering
- .Lead free products, ROHS compliant
- .Widely use in Noise suppression in Digital equipment such as Computer peripheral devices /VCR /VCD /DVD /Camera /OA equipments etc.

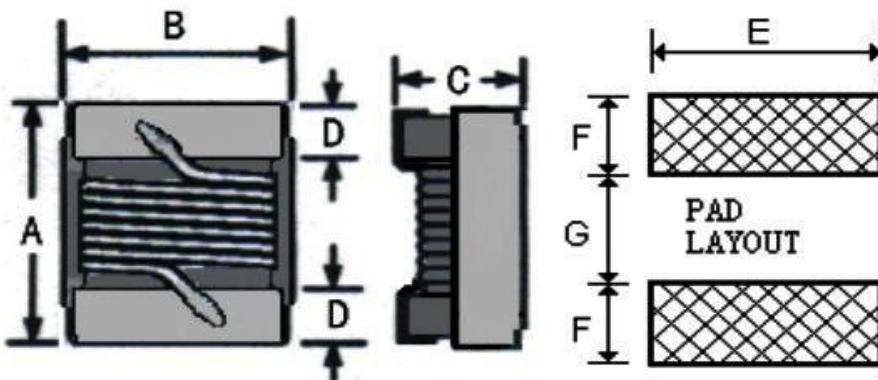
PRODUCT INDICATION

J **0603** **LS** - **R10** **J**

① ② ③ ④ ⑤

- ① Product type: J type
- ② External dimension: 06 for Diameter 0.6inch, 03 for Width 0.3inch
- ③ Material code: LS
- ④ Nominal impedance: R10 for 100NH
- ⑤ Tolerance: S for $\pm 0.3nH$ J for $\pm 5\%$ K for $\pm 10\%$
M for $\pm 20\%$

SHAPE AND DIMENSIONS



UNIT: mm(inch)

Par NO.	A (Max.)	B (Max.)	C (Max.)	D	E	F	G
J1206CS	3.56(0.14)	2.16(0.085)	1.52(0.06)	0.51(0.02)	1.93(0.076)	1.02(0.04)	1.78(0.07)

Electrical Characteristics J1206(3216) Series

• Lower DCR than other 1008 inductors

• Ferrite construction for high current handling

• Inductance values: 1.0 - 100 μ H

Part Number	Inductance	Tolerance (%)	Q (min)	SRF(MHz) (min)	DCR(Ω) (max)	IDC(mA) (max)	Test Freq
J1206LS-102J	1.00 μ H	5	48	230	0.62	700	7.9 MHz
J1206LS-122J	1.20 μ H	5	48	210	0.68	650	7.9 MHz
J1206LS-152J	1.50 μ H	5	41	190	0.76	630	7.9 MHz
J1206LS-182J	1.80 μ H	5	39	170	0.84	600	7.9 MHz
J1206LS-222J	2.20 μ H	5	34	150	1.1	520	7.9 MHz
J1206LS-272J	2.70 μ H	5	34	135	1.28	490	7.9 MHz
J1206LS-332J	3.30 μ H	5	32	120	1.46	450	7.9 MHz
J1206LS-432J	4.30 μ H	5	30	85	1.7	400	7.9 MHz
J1206LS-472J	4.70 μ H	5	31	90	1.68	400	7.9 MHz
J1206LS-502J	5.00 μ H	5	25	30	2.2	360	7.9 MHz
J1206LS-562J	5.60 μ H	5	31	80	1.82	380	7.9 MHz
J1206LS-622J	6.20 μ H	5	75	75	2.5	330	7.9 MHz
J1206LS-682J	6.80 μ H	5	31	70	2	360	7.9 MHz
J1206LS-822J	8.20 μ H	5	37	65	2.65	330	7.9 MHz
J1206LS-912J	9.10 μ H	5	37	57	2.9	310	7.9 MHz
J1206LS-103J	10 μ H	5	37	60	2.95	300	7.9 MHz
J1206LS-123J	12 μ H	5	28	38	3.3	290	2.5 MHz
J1206LS-153J	15 μ H	5	34	30	3.7	280	2.5 MHz
J1206LS-183J	18 μ H	5	28	26	4	160	2.5 MHz
J1206LS-223J	22 μ H	5	20	22	6.14	270	2.5 MHz
J1206LS-273J	27 μ H	5	24	12	6.45	210	2.5 MHz
J1206LS-333J	33 μ H	5	22	19	7	200	2.5 MHz
J1206LS-393J	39 μ H	5	33	26	10	170	2.5 MHz
J1206LS-473J	47 μ H	5	20	12	10.7	160	2.5 MHz
J1206LS-563J	56 μ H	5	20	8	10	170	2.5 MHz
J1206LS-683J	68 μ H	5	14	5.7	13.5	145	0.79 MHz
J1206LS-104J	100 μ H	5	13	4.5	20.5	120	0.79 MHz

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

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

3. SRF measured using an Agilent/HP 8753D network analyzer with a SMD-D fixture.

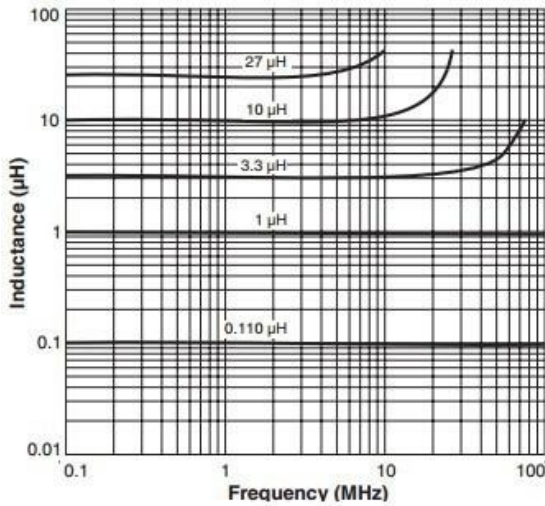
4. DCR measured on a Cambridge Technology Micro-ohmmeter.

5. Current that causes a 15° C temperature rise from 25° C. Because of their open construction, these parts will not saturate.

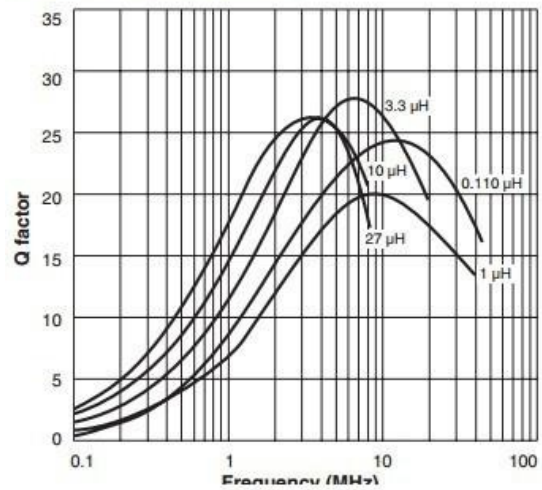
6. Current production parts are marked with one dot. Prior production parts were marked with three dots. Part marking does not indicate polarity.

7. Electrical specifications at 25° C. Refer to Doc 362 "Soldering Surface Mount Components" before soldering

Typical L vs Frequency



Typical Q vs Frequency



Designer's Kit C336 contains 10 of each stocked value

Core material Ceramic/Ferrite

Environmental RoHS compliant, halogen free optional

Terminations RoHS compliant silver-palladium-platinum-glass frit.

Other terminations available at additional cost.

Weight 38.3 - 41.0 mg

Ambient temperature - 40° C to +85° C with Irms current, +85° C to +100° C with derated current

Storage temperature Component: - 40° C to +100° 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 +350 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 Plastic tape: 8 mm wide, 0.3 mm thick, 4 mm pocket spacing, 2.0 mm pocket depth

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