

Wirewound Ferrite Beads 0805LS (2012)



- Higher performance than other surface mount ferrite beads in the market
- High impedance across wide bandwidth; up to GHz band
- Extremely low DCR for high current applications
- Ferrite construction and heavy gauge wire for high current handling
- Eliminates high frequency noise in power supplies or RF signal isolation applications

Part number ¹	Inductance ² ±5% µH)	Impedance typ (Ohms)		SRF min ⁴ (MHz)	DCR max ⁵ (Ohms)	Irms ⁶ (A)	Color code
		100MHz	900MHz				
0805LS-78NXJE_	0.078 @ 7.9 MHz	48.54	414.0	1440	0.042	2.0	Black
0805LS-111XJE_	0.110 @ 7.9 MHz	65.71	512.1	1200	0.05	2.0	Brown
0805LS-471XJE_	0.470 @ 7.9 MHz	296.4	2140	500	0.31	0.720	Red
0805LS-681XJE_	0.680 @ 7.9 MHz	435.7	2136	400	0.46	0.590	Orange
0805LS-102XJE_	1.0 @ 7.9 MHz	633.7	2265	340	0.69	0.500	Yellow
0805LS-122XJE_	1.2 @ 7.9 MHz	751.5	2235	280	1.20	0.400	Brown
0805LS-152XJE_	1.5 @ 7.9 MHz	1006	1635	275	1.03	0.490	Green
0805LS-182XJE_	1.8 @ 7.9 MHz	1220	1664	246	1.15	0.410	Blue
0805LS-222XJE_	2.2 @ 7.9 MHz	3365	1101	106	1.28	0.365	Brown
0805LS-272XJE_	2.7 @ 7.9 MHz	1917	1685	105	1.48	0.350	Violet
0805LS-332XJE_	3.3 @ 7.9 MHz	7765	969.5	83	1.57	0.330	Gray
0805LS-392XJE_	3.9 @ 7.9 MHz	1286	569.9	52	1.70	0.300	White
0805LS-472XJE_	4.7 @ 7.9 MHz	1560	1075	50	1.87	0.280	Black
0805LS-682XJE_	6.8 @ 7.9 MHz	723.3	888.2	35	2.25	0.260	Brown
0805LS-822XJE_	8.2 @ 2.5 MHz	546.6	29.78	27	2.55	0.250	Red
0805LS-103XJE_	10.0 @ 2.5 MHz	306.2	28.82	21	3.45	0.200	Orange
0805LS-153XJE_	15.0 @ 2.5 MHz	318.5	56.94	17	5.03	0.180	Yellow
0805LS-223XJE_	22.0 @ 2.5 MHz	294.5	111.8	13	6.18	0.150	Green
0805LS-273XJE_	27.0 @ 2.5 MHz	203.0	249.0	11	11.04	0.120	Blue

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

0805LS-273XJEC

- Termination:** **E** = Halogen free component. RoHS compliant silver-palladium-platinum-glass frit terminations.
L = RoHS compliant, not halogen-free. Silver-palladium-platinum-glass frit terminations.
R = RoHS compliant matte tin over nickel over silver-platinum-glass frit.
 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). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).
D = 13" machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (7500 parts per full reel).
B = Less than full reel. In an effort to simplify our part numbering system, Coilcraft is eliminating the need for multiple packaging codes. When ordering, simply change the last letter of your part number from B to C.

- Inductance measured using a Coilcraft SMD-A fixture in an Agilent/HP 4286A impedance analyzer with Coilcraft-provided correlation pieces.
- SRF measured using an Agilent/HP 8753D network analyzer with a Coilcraft SMD-D test fixture.
- DCR measured on a Cambridge Technology Micro-ohmmeter.
- Current that causes a 15°C temperature rise from 25°C ambient. Because of their open construction, these parts will not saturate. This information is for reference only and does not represent absolute maximum ratings.
- Electrical specifications at 25°C.

Refer to Doc362 "Soldering Surface Mount Components" before soldering.

Designer's Kit C354 contains 10 of each value.

Core material Ceramic/Ferrite

Environmental RoHS compliant, halogen free

Terminations Silver-palladium-platinum-glass frit. Other terminations available at additional cost.

Weight 12.7– 13.9 mg

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

Maximum part temperature +100°C (ambient + temp rise).

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 +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

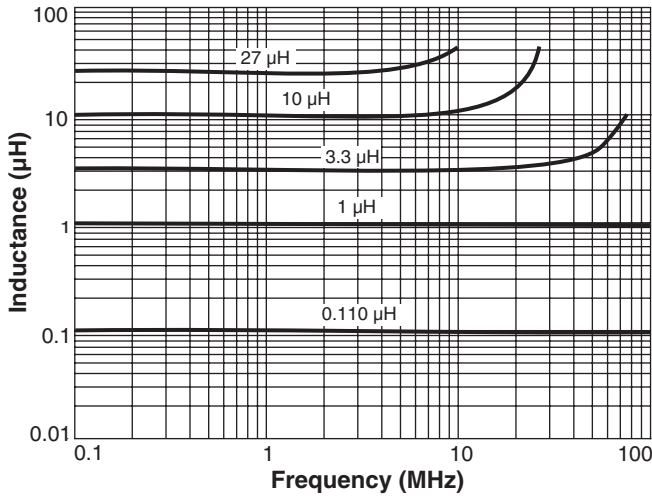
Packaging 2000/7" reel; 7500/13" reel; Plastic tape: 8 mm wide, 0.23 mm thick, 4 mm pocket spacing, 1.6 mm pocket depth

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCB_Washing.pdf](#).

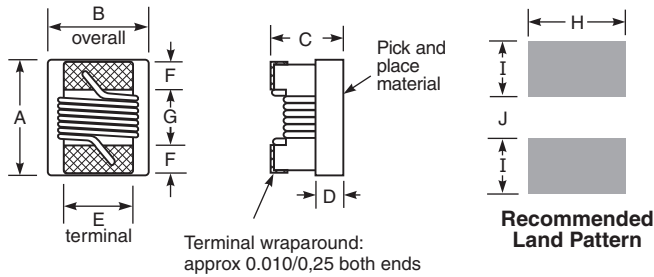
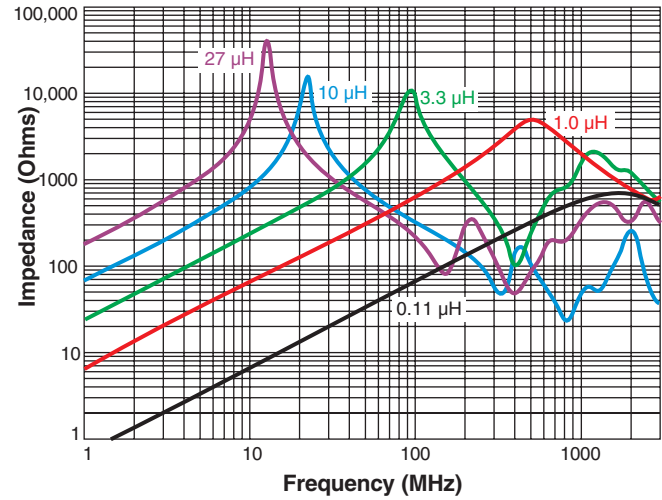
S-Parameter files
ON OUR WEB SITE
SPICE models
ON OUR WEB SITE

0805LS Series Wirewound Ferrite Beads

Typical L vs Frequency



Typical Impedance vs Frequency



A	B	C	D	E	F	G	H	I	J
max	max	max	ref						
0.090	0.075	0.063	0.020	0.050	0.020	0.040	0.070	0.040	0.030
2,29	1,91	1,60	0,51	1,27	0,51	1,02	1,78	1,02	0,76

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

