



Chip Inductors - 0201HT Series (0603)

- 0201 sized inductor with low-profile 0.28 mm maximum height
- Excellent Q compared to non-wirewound alternatives at this height
- Very high SRF – as high as 36 GHz

Designer's Kit C520 contains 20 of each value

Core material Ceramic

Environmental RoHS compliant without exemption, halogen free

Terminations RoHS compliant matte tin over nickel over silver-glass frit.

Weight 0.14 – 0.24 mg

Ambient temperature -40°C to +125°C with Irms current

Maximum part temperature +140°C (ambient + temp rise).

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

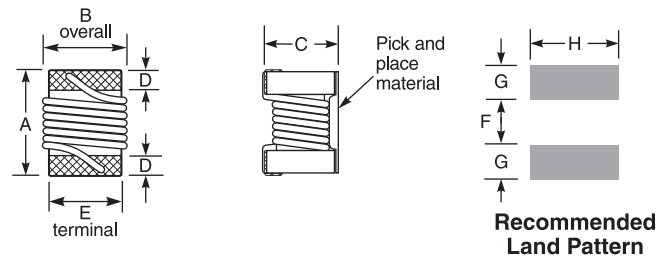
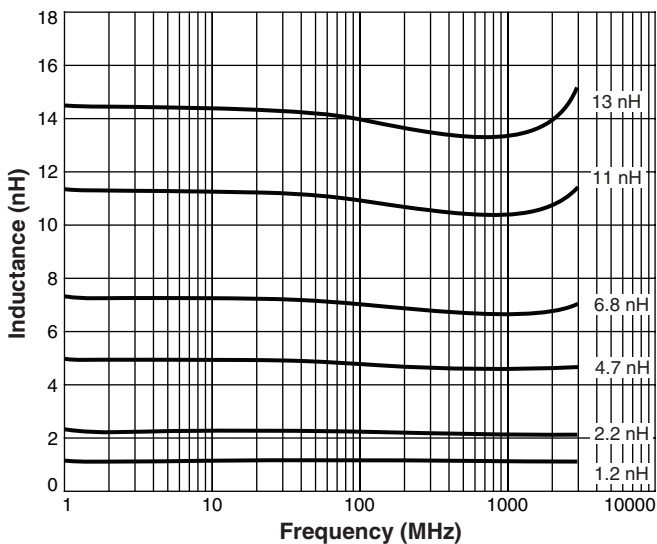
Temperature Coefficient of Inductance (TCL) +25 to +125 ppm/°C

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

Packaging 2000 or 10,000 per 7" reel; Paper tape: 8 mm wide, 0.42 mm thick, 2 mm pocket spacing

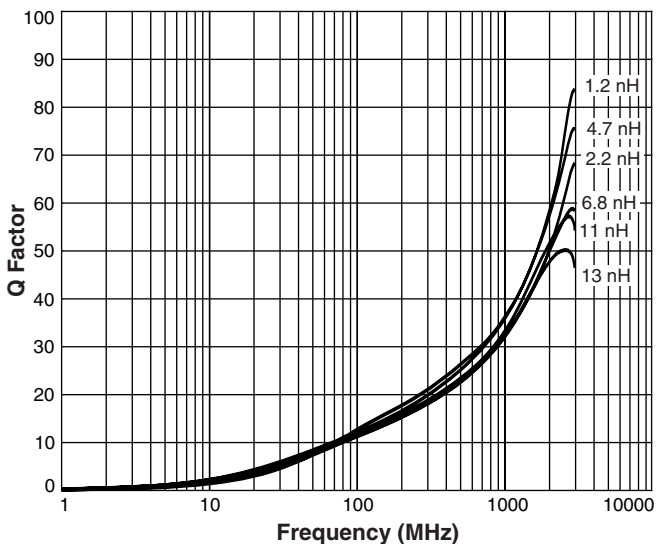
PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCB_Washing.pdf](#).

Typical L vs Frequency



Amax	Bmax	Cmax	D	E	F	G	H	
0.023	0.018	0.011	0.004	0.015	0.008	0.0095	0.0195	inches
0,58	0,46	0,28	0,10	0,38	0,20	0,24	0,50	mm

Typical Q vs Frequency



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0201HT Series (0603)

Part number ¹	L ² (nH)	Percent tolerance	900 MHz Q typ ³	1.7 GHz Q typ ³	2.4 GHz Q typ ³	SRF typ ⁴ (GHz)	DCR max ⁵ (mOhms)	I _{rms} (mA)		
								25°C ⁶	85°C ⁷	125°C ⁸
0201HT-0N5XKR_	0.5	10	31	45	60	36.0	45	650	300	180
0201HT-1N2XKR_	1.2	10	34	51	69	22.0	80	490	300	180
0201HT-2N2XKR_	2.2	10	31	45	57	15.0	120	440	300	180
0201HT-2N4XKR_	2.4	10	30	45	57	14.0	140	400	240	140
0201HT-3N3XKR_	3.3	10	32	49	62	13.0	150	380	300	180
0201HT-3N6XKR_	3.6	10	30	46	58	12.0	190	340	240	140
0201HT-4N7XKR_	4.7	10	33	51	65	10.5	190	340	300	180
0201HT-5N1XKR_	5.1	10	31	47	58	10.0	235	280	240	140
0201HT-5N6XKR_	5.6	10	29	43	52	9.0	290	280	190	100
0201HT-6N8XKR_	6.8	10	30	45	55	8.5	280	250	240	140
0201HT-7N5XKR_	7.5	10	30	46	56	8.5	450	200	170	90
0201HT-9N1XKR_	9.1	10	32	48	56	7.5	330	240	240	140
0201HT-11NXKR_	11	10	31	47	55	7.0	475	200	190	100
0201HT-13NXKR_	13	10	30	44	50	6.3	520	190	190	100

1. When ordering, please specify **packaging** code:

0201HT-13NXKRW

Tolerance: K = 10%

Packaging: W = 7" machine-ready reel. EIA-481 punched paper tape (2000 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).

Y = 7" machine-ready reel. EIA-481 punched paper tape. Factory order only, not stocked (10000 parts per full reel).

- Inductance measured at 250 MHz using a Coilcraft SMD-F fixture in an Agilent/HP 4287 impedance analyzer with Coilcraft-provided correlation pieces.
- Q measured using an Agilent/HP 4991A with an Agilent/HP 16197 test fixture.
- SRF measured using an Agilent/HP 8722ES network analyzer and a Coilcraft SMD-D test fixture.
- DCR measured on a micro-ohmmeter and a Coilcraft CCF858 test fixture.
- Current that cause 15°C rise at 25°C.
- Maximum current that can be applied at 85°C.
- Maximum current that can be applied at 125°C.
- Electrical specifications at 25°C.

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



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