

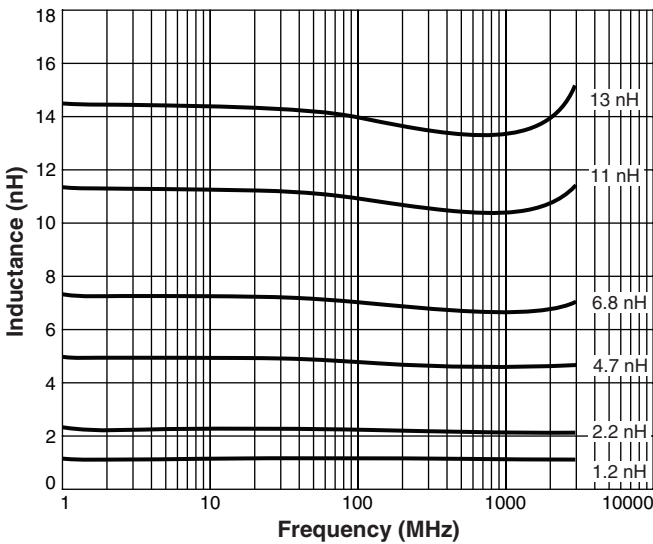
**NEW!**

# Chip Inductors - 0201HT Series (0603)

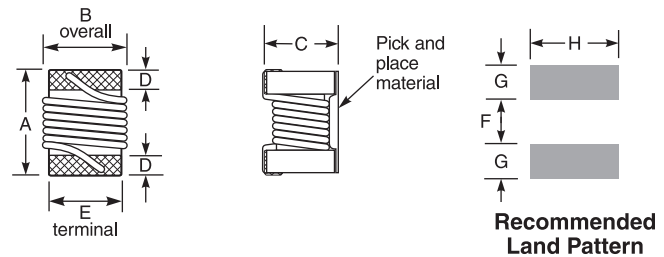


- 0201 sized inductor with low-profile 0.28 mm maximum height
- Excellent Q compared to non-wirewound alternatives at this height
- Very high SRF – as high as 36 GHz

## Typical L vs Frequency

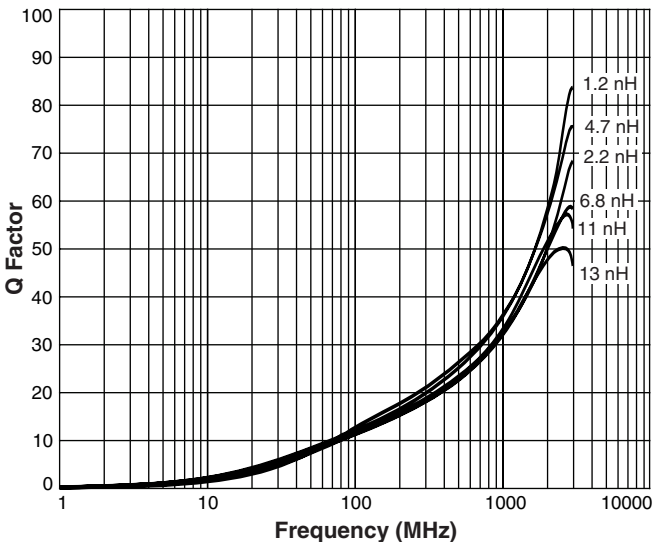


**Core material** Ceramic  
**Environmental** RoHS compliant without exemption, halogen free  
**Terminations** RoHS compliant matte tin over nickel over silver-glass frit.  
**Weight** 0.14 – 0.24 mg  
**Ambient temperature** -40°C to +125°C with Irms current  
**Maximum part temperature** +140°C (ambient + 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](#).



A max	B max	C max	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 <sup>1</sup>	L <sup>2</sup> (nH)	Percent tolerance	900 MHz Q typ <sup>3</sup>	1.7 GHz Q typ <sup>3</sup>	2.4 GHz Q typ <sup>3</sup>	SRF typ <sup>4</sup> (GHz)	DCR max <sup>5</sup> (mOhms)	I <sub>rms</sub> (mA)		
								25°C <sup>6</sup>	85°C <sup>7</sup>	125°C <sup>8</sup>
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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