



Chip Inductors – 0201AF (0603)

- Industry's highest inductance 0201 chip inductor – up to 200 nH
- Ferrite construction for high impedance and high current handling
- Optimized for RF isolation in applications ranging from 900 MHz – 9 GHz
- Low DCR – as low as 0.15 Ohms
- Low losses for low frequency filter applications

Part number ¹	Inductance ² ±10% (nH)	Impedance typ (Ohms)			SRF typ ³ (MHz)	DCR max ⁴ (Ohms)	Irms ⁵ (mA)
		700 MHz	900 MHz	1.7 GHz			
0201AF-330XKR_	33	135	170	345	3400	0.150	340
0201AF-510XKR_	51	200	255	480	2900	0.300	280
0201AF-680XKR_	68	270	350	750	2600	0.330	220
0201AF-910XKR_	91	335	425	830	2350	0.370	200
0201AF-111XKR_	110	465	625	1560	2100	0.480	170
0201AF-141XKR_	140	530	680	1380	2000	0.650	160
0201AF-171XKR_	170	680	890	1910	1850	0.860	140
0201AF-201XKR_	200	850	1130	2620	1700	1.250	110

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

0201AF-201XKRW

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).

U = 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 U to W.

- Inductance measured at 7.9 MHz using a Coilcraft SMD-F test fixture and Coilcraft-provided correlation pieces with an Agilent/HP 4286 impedance analyzer.
 - SRF measured using Agilent/HP 8753D network analyzer and Coilcraft SMD-D test fixture.
 - DCR measured on Cambridge Technology micro-ohmmeter and a Coilcraft CCF858 test fixture.
 - Current that causes a 15°C temperature rise from 25°C ambient. Because of their open construction, these parts will not saturate.
 - Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

Core material Ferrite

Environmental RoHS compliant without exemption, halogen free

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

Weight 0.12 – 0.20 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

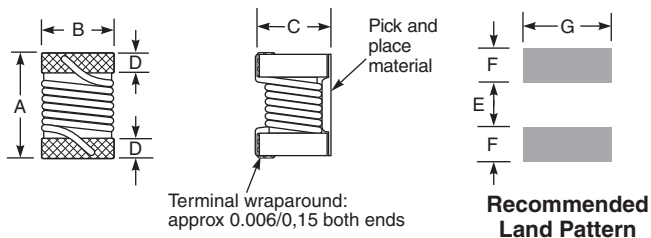
Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

Temperature Coefficient of Inductance (TCL) +25 to +150 ppm/°C

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

Packaging 2000 per 7" reel. Paper tape: 8 mm wide, 0.68 mm thick, 2 mm pocket spacing

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



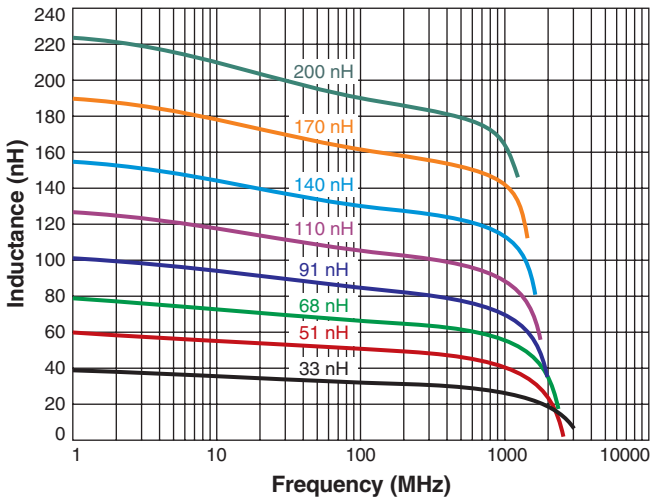
A max	B max	C max	D	E	F	G	
0.023	0.014	0.018	0.004	0.009	0.007	0.018	inches
0.58	0.36	0.46	0.10	0.23	0.18	0.46	mm

COILCRAFT ACCURATE
PRECISION REPEATABLE
MEASUREMENTS
TEST FIXTURES
SEE WEB SITE



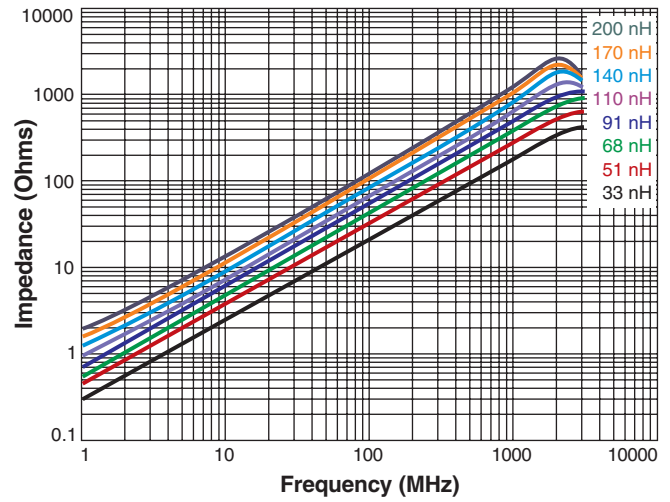
Chip Inductors – 0201AF Series

Typical L vs Frequency



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

Typical Impedance vs Frequency



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Document 1365-2 Revised 12/01/21
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