

NEW!

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).

U = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter W instead.

- 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

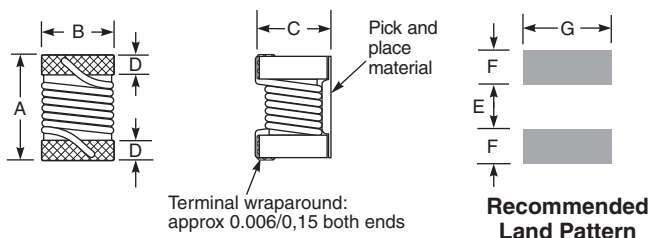
Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

Failures in Time (FIT) / Mean Time Between Failures (MTBF)

One per billion hours / one billion hours, calculated per Telcordia SR-332

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.

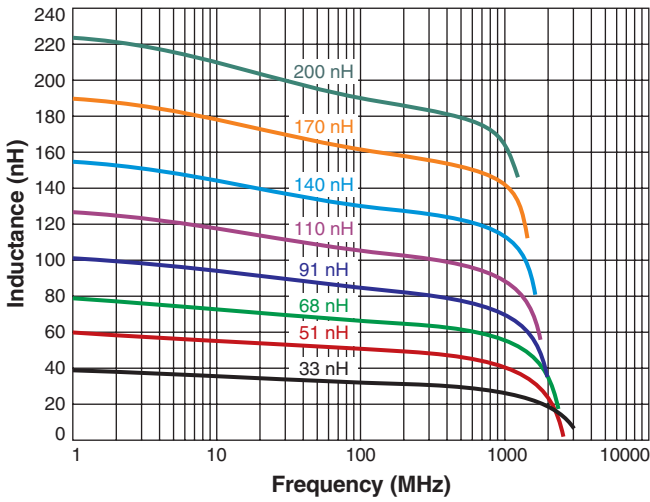


A max	B max	C max	D	E	F	G	
0.023	0.014	0.018	0.004	0.009	0.007	0.018	inches
0,58	0,36	0,46	0,10	0,23	0,18	0,46	mm

NEW!

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

