

NEW!

Wirewound Ferrite Beads 0201AF (0603)



- 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 ±10% (nH)	Impedance typ (Ohms)		SRF typ ³ (MHz)	DCR max ⁴ (Ohms)	Irms ⁵ (mA)
		100 MHz	900 MHz			
0201AF-330XKR_	33	19.89	159.9	3400	0.150	340
0201AF-510XKR_	51	29.56	238.5	2900	0.300	280
0201AF-680XKR_	68	39.89	330.5	2600	0.330	220
0201AF-910XKR_	91	53.12	437.4	2350	0.370	200
0201AF-111XKR_	110	64.71	548.8	2100	0.480	170
0201AF-141XKR_	140	81.77	706.3	2000	0.650	160
0201AF-171XKR_	170	101.9	910.9	1850	0.860	140
0201AF-201XKR_	200	118.6	1089	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

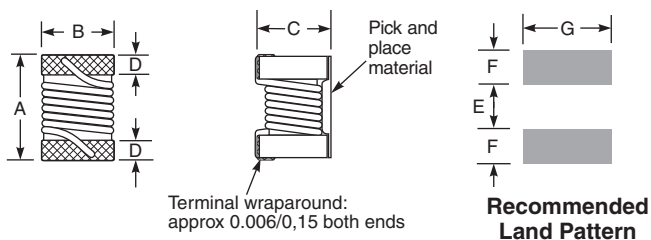
Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

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 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
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

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Wirewound Ferrite Beads – 0201AF Series

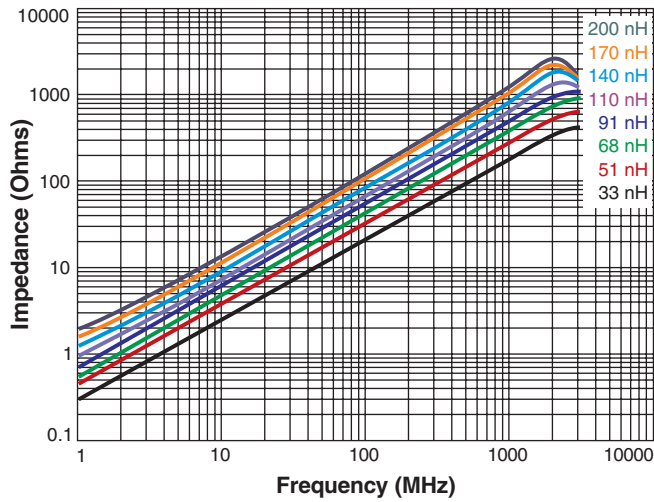
S-Parameter files

ON OUR WEB SITE

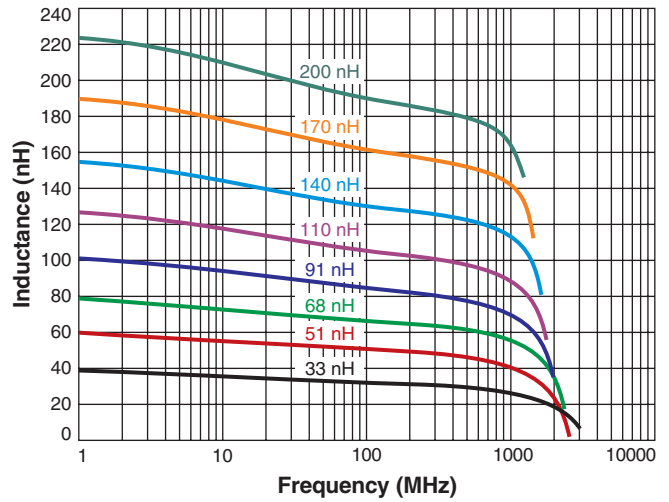
SPICE models

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Typical Impedance vs Frequency



Typical L vs Frequency



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