

# 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 <sup>1</sup>	Inductance <sup>2</sup> ±10% (nH)	Impedance typ (Ohms)		SRF typ <sup>3</sup> (MHz)	DCR max <sup>4</sup> (Ohms)	Irms <sup>5</sup> (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). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).

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. 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

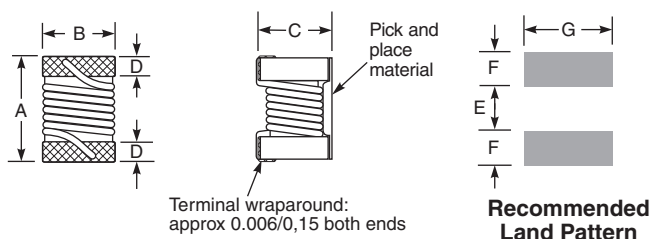
**Resistance to soldering heat** Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

**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 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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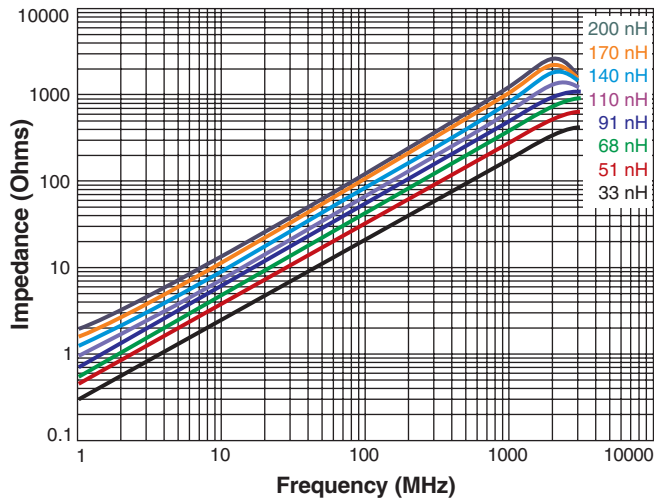
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**PRECISION** REPEATABLE  
 MEASUREMENTS  
 SEE WEB SITE **TEST FIXTURES**

**S-Parameter files**  
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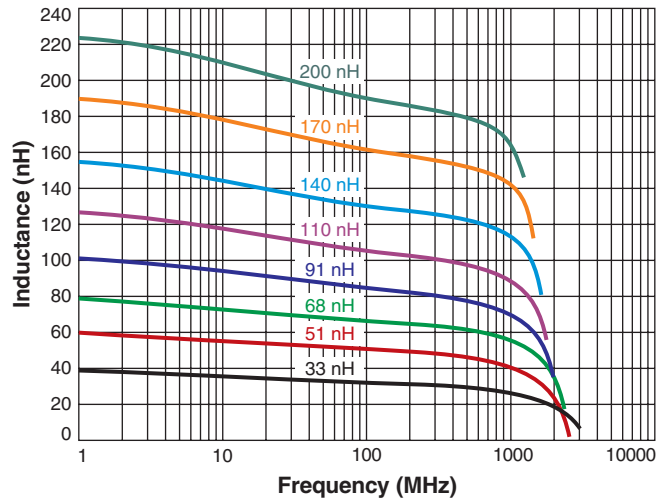


# Wirewound Ferrite Beads – 0201AF Series

## Typical Impedance vs Frequency



## Typical L vs Frequency



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