# Wirewound Ferrite Beads 0805AF (2012)

- 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

## Specifications

<table>
<thead>
<tr>
<th>Part number</th>
<th>Inductance (±5% (µH))</th>
<th>Impedance typ (Ohms)</th>
<th>SRF typ (MHz)</th>
<th>DCR max (Ohms)</th>
<th>Irms (mA)</th>
<th>Color code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>at 100 MHz</td>
<td>at 900 MHz</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>0805AF-111XJR</td>
<td>0.11</td>
<td>65.61</td>
<td>793.1</td>
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<td>0.05</td>
<td>940</td>
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<td>0805AF-681XJR</td>
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<td>387.3</td>
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<td>355</td>
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<td>1423</td>
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<td>0.64</td>
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<tr>
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<td>942.3</td>
<td>1519</td>
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<td>1153</td>
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<td>7069</td>
<td>674.5</td>
<td>105</td>
<td>0.98</td>
<td>350</td>
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1. When ordering, please specify termination and packaging codes:
   - **Termination:** R = RoHS compliant matte tin over nickel over silver-platinum-glass frit.
   - Special order: Q = RoHS tin-silver-copper (95.5/0.5/0.5) or P = non-RoHS tin-lead (63/37).
   - **Packaging:** C = 7″ machine-ready reel. EIA-481 embossed plastic tape (2000 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer ($25 charge).
   - B = 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 B to C.

2. Inductance measured at 0.1 Vrms, using Coilcraft SMD-A fixture in Agilent/HP 4286A impedance analyzer with Coilcraft-provided correlation pieces.
3. SRF measured using Agilent/HP 8753D network analyzer with Coilcraft SMD-D test fixture.
4. DCR measured on Cambridge Technology Micro-ohmmeter.
5. Current that causes a 15°C temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings.
6. Each part is marked with a single dot. The color dots are not unique identifiers and correspond to multiple inductance values.
7. Electrical specifications at 25°C.

Core material: Ferrite

Environmental: RoHS compliant without exemption, halogen free

Termination: RoHS compliant matte tin over nickel over silver-platinum-glass frit. Other terminations available at additional cost.

Weight: 16.7 – 18.0 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.

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

Packaging:
- **0805AF-103XJR** 7″ machine-ready reel. EIA-481 embossed plastic tape (2000 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer ($25 charge).
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- **2000/7″ reel**: Plastic tape: 8 mm wide, 0.23 mm thick, 4 mm pocket spacing, 1.65 mm pocket depth


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**S-Parameter files**

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**SPICE models**

[ON OUR WEB SITE](#)

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**PCB washing:** Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.
Wirewound Ferrite Beads – 0805AF Series

Typical Impedance vs Frequency

Typical L vs Frequency

Typical Impedance vs Frequency

Typical L vs Frequency

AEC Q200 85°C+
Halogen Free

Note: Height dimension (C) is before optional solder application. For maximum height dimension including solder, add 0.006 in / 0.152 mm.