202 series

PRODUCT DESCRIPTION
West Coast Magnetics’ high Q RF inductors are designed for resonant circuit applications requiring exceptionally high Q’s and tight tolerances on inductance specifications. They are mounted in a surface mount package which assures mechanical stability and excellent lead coplanarity. The package is suitable for automatic pick and place equipment.

FEATURES - BENEFITS
Exceptionally high Q values at RF frequencies – Standard inductance tolerance +/-5% – Tighter tolerances available on request – Application specific designs also available including different inductance values and Q specifications adjusted to frequency requirements

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Nominal Inductance (µH)</th>
<th>Q min at Frequency (MHz)</th>
<th>Q min at Frequency (MHz)</th>
<th>Q min at Frequency (MHz)</th>
<th>Nominal DCR (mΩ)</th>
<th>Self Resonant Frequency (MHz)</th>
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<tr>
<td>202-01</td>
<td>0.039</td>
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<td>70</td>
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<td>100</td>
<td>150</td>
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<td>20</td>
<td>155</td>
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</tbody>
</table>
### rf inductors

#### 202 series (page 2)

**Dimensions:**

- **202 Side View**
  - 0.245 in (6.22 mm)

- **202 Side View**
  - 0.190 in (4.83 mm)

- **202 Bottom View**
  - 0.395 in (10.03 mm)

- **202 Footprint**
  - 0.245 in (6.22 mm)

**Moulding:**
- LCP (Grey)

**Rating:**
- UL94-VO

**2 Terminals:**
- Brass Alloy or Phos. Bronze
- 09/10 Tin plated

**Solderability:**
- Per MIL-STD-202 Method 208

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**Product Code | Nominal Inductance (µH) | Q min at Frequency (MHz) | Frequency (MHz) | Q min at Frequency (MHz) | Q min at Frequency (MHz) | Nominal DCR (mΩ) | Self Resonant Frequency (MHz)°**

| 202-15 | 0.560 | 125 | 10 | 175 | 20 | 155 | 30 | 38 | 170 |
| 202-16 | 0.680 | 140 | 10 | 180 | 20 | 160 | 30 | 41 | 150 |
| 202-17 | 0.820 | 150 | 10 | 180 | 20 | 160 | 30 | 71 | 140 |
| 202-18 | 1.000 | 160 | 10 | 185 | 20 | 160 | 30 | 78 | 120 |
| 202-19 | 1.200 | 165 | 10 | 190 | 20 | 160 | 30 | 82 | 110 |
| 202-20 | 1.500 | 150 | 7 | 150 | 10 | 140 | 15 | 85 | 100 |
| 202-21 | 1.800 | 150 | 7 | 150 | 10 | 135 | 15 | 90 | 90 |
| 202-22 | 2.200 | 150 | 7 | 150 | 10 | 135 | 15 | 158 | 75 |
| 202-23 | 2.700 | 150 | 7 | 150 | 10 | 135 | 15 | 181 | 65 |
| 202-24 | 3.300 | 135 | 4 | 155 | 7 | 150 | 10 | 200 | 60 |
| 202-25 | 3.900 | 135 | 4 | 155 | 7 | 150 | 10 | 340 | 55 |
| 202-26 | 4.700 | 135 | 4 | 155 | 7 | 145 | 10 | 380 | 50 |
| 202-27 | 5.600 | 135 | 4 | 145 | 7 | 145 | 10 | 410 | 45 |
| 202-28 | 6.800 | 135 | 4 | 140 | 7 | 140 | 10 | 700 | 43 |
| 202-29 | 8.200 | 135 | 4 | 140 | 7 | 135 | 10 | 805 | 38 |
| 202-30 | 10.000 | 135 | 4 | 140 | 7 | 135 | 10 | 850 | 35 |

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Note: All materials of construction minimum Class B 130° C rated.

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