AC4842R Series – Air Coil Inductors

Features
- High Q value, self-resonant frequency
- Tightly tolerance
- Epoxy cover for mechanical stability and pick & place
- Surface mount
- RoHS compliant

Applications
- High frequency TV and radio receivers
- Radio transmitters
- RF amplifiers
- Tuning applications

Electrical Specifications @ 25 °C

<table>
<thead>
<tr>
<th>Bourns Part Number</th>
<th>Inductance L (nH)</th>
<th>Q Min.</th>
<th>Test Frequency (MHz)</th>
<th>DC Resistance (mΩ) Max.</th>
<th>SRF (GHz) Min.</th>
<th>Rated Current (A) Max.</th>
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<tbody>
<tr>
<td>AC4842R-22NK</td>
<td>22</td>
<td>10</td>
<td>100</td>
<td>4.2</td>
<td>3.2</td>
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<td>3.5</td>
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<td>4.4</td>
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<td>5.6</td>
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<td>100</td>
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<td>2.5</td>
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<td>AC4842R-R15K</td>
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<td>100</td>
<td>33.0</td>
<td>0.75</td>
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Notes:
2 % tolerance is available. Replace "K" in the part number with "G"
5 % tolerance is available. Replace "K" in the part number with "J"

Materials
- Wire: Enameled Copper
- Cover: Epoxy
- Terminal: Sn/Ag/Cu
- Packaging: 1000 pcs. per 13-inch reel

Soldering Profile

Profile Feature
- Preheat
  - Temperature Min. (Tmin)
  - Temperature Max. (Tmax)
  - Time (tP) at T = 5 °C
- Ramp-up Rate (T = 0°C to T)
- Liquidous temperature (Tl)
  - Time (tL) maintained above Tl
- Peak package body temperature (Tp)
  - Time (tP) at Tp = 5 °C
  - Ramp-Down Rate (T = 0°C to Tp)
- Time 25 °C to Peak Temperature

Pb Free Assembly
- Preheat
  - Temperature Min. (Tmin)
  - Temperature Max. (Tmax)
  - Time (tP) at T = 5 °C
  - Temperature at Tp = 5 °C
  - Ramp-up Rate (T = 0°C to Tp)

WARNING
Cancer and Reproductive Harm
www.P65Warnings.ca.gov

Specifications are subject to change without notice.
Users should verify actual device performance in their specific applications.
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AC4842R Series – Air Coil Inductors

Product Dimensions

Electrical Curves

Recommended Layout

How to Order

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