Features
- Magnetically shielded
- Flat wirewound
- Low DCR
- High saturation current
- Extra solder pad for increased mechanical stability
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

PQ2614BLA/BHA Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

<table>
<thead>
<tr>
<th>Bourns Part Number</th>
<th>Inductance @ 100 kHz / 0.1 V</th>
<th>SRF (MHz)</th>
<th>DCR (mΩ) Typ.</th>
<th>DCR (mΩ) Max.</th>
<th>Irs (A) Typ.</th>
<th>Isat1 (A) Typ.</th>
<th>Isat2 (A) Typ.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PQ2614BLA-1R0K</td>
<td>1.0 ± 0.10</td>
<td>61</td>
<td>0.85</td>
<td>1.20</td>
<td>30</td>
<td>&gt;100</td>
<td>&gt;100</td>
</tr>
<tr>
<td>PQ2614BLA-1R5K</td>
<td>1.5 ± 0.10</td>
<td>60</td>
<td>1.29</td>
<td>1.60</td>
<td>30</td>
<td>&gt;100</td>
<td>&gt;100</td>
</tr>
<tr>
<td>PQ2614BHA-2R2K</td>
<td>2.2 ± 0.10</td>
<td>40</td>
<td>1.62</td>
<td>1.90</td>
<td>30</td>
<td>&gt;100</td>
<td>&gt;100</td>
</tr>
<tr>
<td>PQ2614BHA-2R2K</td>
<td>2.2 ± 0.10</td>
<td>50</td>
<td>1.29</td>
<td>1.60</td>
<td>30</td>
<td>84.0</td>
<td>84.8</td>
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<tr>
<td>PQ2614BHA-3R3K</td>
<td>3.3 ± 0.10</td>
<td>30</td>
<td>1.62</td>
<td>1.90</td>
<td>30</td>
<td>66.9</td>
<td>68.4</td>
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<tr>
<td>PQ2614BHA-3R3K</td>
<td>3.3 ± 0.10</td>
<td>40</td>
<td>1.29</td>
<td>1.60</td>
<td>30</td>
<td>54.0</td>
<td>57.0</td>
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<tr>
<td>PQ2614BHA-4R7K</td>
<td>4.7 ± 0.10</td>
<td>25</td>
<td>1.62</td>
<td>1.90</td>
<td>30</td>
<td>48.0</td>
<td>50.1</td>
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<tr>
<td>PQ2614BHA-4R7K</td>
<td>4.7 ± 0.10</td>
<td>30</td>
<td>1.29</td>
<td>1.60</td>
<td>30</td>
<td>36.9</td>
<td>39.0</td>
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<tr>
<td>PQ2614BHA-6R8K</td>
<td>6.8 ± 0.10</td>
<td>20</td>
<td>1.62</td>
<td>1.90</td>
<td>30</td>
<td>34.5</td>
<td>36.2</td>
</tr>
<tr>
<td>PQ2614BHA-6R8K</td>
<td>6.8 ± 0.10</td>
<td>25</td>
<td>1.29</td>
<td>1.60</td>
<td>30</td>
<td>26.0</td>
<td>27.8</td>
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<tr>
<td>PQ2614BHA-100K</td>
<td>10 ± 0.10</td>
<td>15</td>
<td>1.62</td>
<td>1.90</td>
<td>30</td>
<td>21.5</td>
<td>23.4</td>
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<tr>
<td>PQ2614BHA-100K</td>
<td>10 ± 0.10</td>
<td>20</td>
<td>1.29</td>
<td>1.60</td>
<td>30</td>
<td>16.2</td>
<td>17.6</td>
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<tr>
<td>PQ2614BHA-150K</td>
<td>15 ± 0.10</td>
<td>12</td>
<td>1.62</td>
<td>1.90</td>
<td>30</td>
<td>14.0</td>
<td>15.2</td>
</tr>
<tr>
<td>PQ2614BHA-150K</td>
<td>15 ± 0.10</td>
<td>15</td>
<td>1.29</td>
<td>1.60</td>
<td>30</td>
<td>9.8</td>
<td>11.0</td>
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<tr>
<td>PQ2614BHA-220K</td>
<td>22 ± 0.10</td>
<td>10</td>
<td>1.62</td>
<td>1.90</td>
<td>30</td>
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<td>9.6</td>
</tr>
<tr>
<td>PQ2614BHA-220K</td>
<td>22 ± 0.10</td>
<td>10</td>
<td>1.29</td>
<td>1.60</td>
<td>30</td>
<td>6.0</td>
<td>6.8</td>
</tr>
<tr>
<td>PQ2614BHA-330K</td>
<td>33 ± 0.10</td>
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<td>1.62</td>
<td>1.90</td>
<td>30</td>
<td>5.1</td>
<td>5.9</td>
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<td>PQ2614BHA-330K</td>
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<td>7</td>
<td>1.29</td>
<td>1.60</td>
<td>30</td>
<td>2.6</td>
<td>3.3</td>
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</tbody>
</table>

General Specifications
- Dielectric Withstand Voltage - Terminal to Core .... 300 VDC 5 mA max.
- Operating Temperature
  -40 °C to +155 °C (Temperature rise included)
- Storage Temperature (Component)
  -40 °C to +155 °C
- Rated Current
  Inductance drops 20% at Isat1
  Inductance drops 30% at Isat2
- Temperature Rise .....40 °C at rated Irms
- Moisture Sensitivity Level .....................1
- ESD Classification (HBM).................N/A

Materials
- Core..............................................Ferrite
- Wire ....................................Enameled copper
- Terminal Finish ...................................Sn
- Packaging............................. 25 pcs/tray

Product Dimensions

How to Order

PQ2614B _ A - 100K

Recommended Layout

Typical Part Marking

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

**"Q" part number suffix for automotive and other applications requiring appropriate AEC-Q101 compliance.
Specifications are subject to change without notice.
Users should verify actual device performance in their specific applications.
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Soldering Profile

Temperature (°C) vs Time (Seconds)

- **Preheat**: (1.5-3 °C/Sec.)
- **Soak Zone**: (1.5 Min. Max.)
  - 75-90 Sec. Typ.
  - from 150-180 °C
- **Reflow Zone**: above 220 °C
  - 35-60 Sec.
  - 45 Sec. Typ.
- **Peak Temp.**: 230-245 °C
- **Cool Down**: 1.5-3 °C/Sec.

**Specifications**

- **Preheat and Soak Zones**: (2.0-3.5 Min. Max.)

**Contact Information**

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- **The Americas**: Tel: +1-951 781-5500 • Email: americus@bourns.com
- **Website**: www.bourns.com

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