General Specifications

- 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

| Bourns Part Number | Inductance @ 100 kHz / 0.1 V (µH) TOL. (%) | SRF (MHz) Typ. | DCR (mΩ) Typ. | DCR (mΩ) Max. | Irms (A) Typ. Isat1 (A) Typ. Isat2 (A) Typ. |
|-------------------|--------------------------------------------|---------------|---------------|---------------|------------------------------------------|------------------------------------------|
| PQ2614BLA-1R0K    | 1.0 ± 10                                   | 61            | 0.85          | 1.20          | 30 >100 >100                             |                                                                                        |
| PQ2614BLA-1R5K    | 1.5 ± 10                                   | 60            | 1.29          | 1.60          | 30 >100 >100                             |                                                                                        |
| PQ2614BHA-2R2K     | 2.2 ± 10                                   | 40            | 1.62          | 1.90          | 30 >100 >100                             |                                                                                        |
| PQ2614BHA-2R2K     | 2.2 ± 10                                   | 50            | 1.29          | 1.60          | 30 >100 >100                             |                                                                                        |
| PQ2614BHA-3R3K     | 3.3 ± 10                                   | 30            | 1.62          | 1.90          | 30 >100 >100                             |                                                                                        |
| PQ2614BHA-3R3K     | 3.3 ± 10                                   | 40            | 1.29          | 1.60          | 30 >100 >100                             |                                                                                        |
| PQ2614BHA-4R7K     | 4.7 ± 10                                   | 25            | 1.62          | 1.90          | 30 >100 >100                             |                                                                                        |
| PQ2614BHA-4R7K     | 4.7 ± 10                                   | 30            | 1.29          | 1.60          | 30 >100 >100                             |                                                                                        |
| PQ2614BHA-6R8K     | 6.8 ± 10                                   | 20            | 1.62          | 1.90          | 30 >100 >100                             |                                                                                        |
| PQ2614BHA-6R8K     | 6.8 ± 10                                   | 25            | 1.29          | 1.60          | 30 >100 >100                             |                                                                                        |
| PQ2614BHA-100K     | 10 ± 10                                    | 15            | 1.62          | 1.90          | 30 >100 >100                             |                                                                                        |
| PQ2614BHA-100K     | 10 ± 10                                    | 20            | 1.29          | 1.60          | 30 >100 >100                             |                                                                                        |
| PQ2614BHA-150K     | 15 ± 10                                    | 12            | 1.62          | 1.90          | 30 >100 >100                             |                                                                                        |
| PQ2614BHA-150K     | 15 ± 10                                    | 15            | 1.29          | 1.60          | 30 >100 >100                             |                                                                                        |
| PQ2614BHA-220K     | 22 ± 10                                    | 10            | 1.62          | 1.90          | 30 >100 >100                             |                                                                                        |
| PQ2614BHA-220K     | 22 ± 10                                    | 10            | 1.29          | 1.60          | 30 >100 >100                             |                                                                                        |
| PQ2614BHA-330K     | 33 ± 10                                    | 8             | 1.62          | 1.90          | 30 >100 >100                             |                                                                                        |
| PQ2614BHA-330K     | 33 ± 10                                    | 7             | 1.29          | 1.60          | 30 >100 >100                             |                                                                                        |

How to Order

Model: PQ2614B _ A - 100K

Current:
- L = Low Isat
- H = High Isat

AEC-Q200 Compliant

Value Code (see table)

Typical Part Marking

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WARNING Cancer and Reproductive Harm

www.P65Warnings.ca.gov


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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

Recommended Layout

** Bourns considers a product to be “halogen free” if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

Users should verify actual device performance in their specific applications.
PQ2614BLA/BHA Series - Shielded Power Inductors

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