



## 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

| Bourns Part Number | Inductance @ 100 kHz / 0.1 V |          | SRF (MHz) Typ. | DCR (mΩ) Typ. | DCR (mΩ) Max. | Irms (A) Typ. | Isat1 (A) Typ. | Isat2 (A) Typ. |
|--------------------|------------------------------|----------|----------------|---------------|---------------|---------------|----------------|----------------|
|                    | L (μH)                       | Tol. (%) |                |               |               |               |                |                |
| 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           |
| PQ2614BLA-2R2K     | 2.2                          | ± 10     | 50             | 1.29          | 1.60          | 30            | 84.0           | 84.8           |
| PQ2614BHA-3R3K     | 3.3                          | ± 10     | 30             | 1.62          | 1.90          | 30            | 66.9           | 68.4           |
| PQ2614BLA-3R3K     | 3.3                          | ± 10     | 40             | 1.29          | 1.60          | 30            | 54.0           | 57.0           |
| PQ2614BHA-4R7K     | 4.7                          | ± 10     | 25             | 1.62          | 1.90          | 30            | 48.0           | 50.1           |
| PQ2614BLA-4R7K     | 4.7                          | ± 10     | 30             | 1.29          | 1.60          | 30            | 36.9           | 39.0           |
| PQ2614BHA-6R8K     | 6.8                          | ± 10     | 20             | 1.62          | 1.90          | 30            | 34.5           | 36.2           |
| PQ2614BLA-6R8K     | 6.8                          | ± 10     | 25             | 1.29          | 1.60          | 30            | 26.0           | 27.8           |
| PQ2614BHA-100K     | 10                           | ± 10     | 15             | 1.62          | 1.90          | 30            | 21.5           | 23.4           |
| PQ2614BLA-100K     | 10                           | ± 10     | 20             | 1.29          | 1.60          | 30            | 16.2           | 17.6           |
| PQ2614BHA-150K     | 15                           | ± 10     | 12             | 1.62          | 1.90          | 30            | 14.0           | 15.2           |
| PQ2614BLA-150K     | 15                           | ± 10     | 15             | 1.29          | 1.60          | 30            | 9.8            | 11.0           |
| PQ2614BHA-220K     | 22                           | ± 10     | 10             | 1.62          | 1.90          | 30            | 8.6            | 9.6            |
| PQ2614BLA-220K     | 22                           | ± 10     | 10             | 1.29          | 1.60          | 30            | 6.0            | 6.8            |
| PQ2614BHA-330K     | 33                           | ± 10     | 8              | 1.62          | 1.90          | 30            | 5.1            | 5.9            |
| PQ2614BLA-330K     | 33                           | ± 10     | 7              | 1.29          | 1.60          | 30            | 2.6            | 3.3            |

### How to Order

**PQ2614B A - 100K**

Model \_\_\_\_\_  
 Current \_\_\_\_\_  
 L = Low Isat  
 H = High Isat  
 AEC-Q200 Compliant \_\_\_\_\_  
 Value Code (see table) \_\_\_\_\_

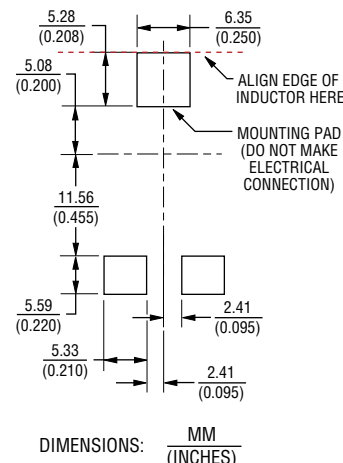
### Typical Part Marking

SERIES \_\_\_\_\_ VALUE CODE \_\_\_\_\_

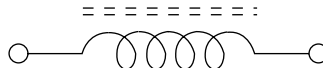
PQ2614BLA-1R0K  
YYWW X

DATE CODE MARKING:  
 YY = YEAR  
 WW = WEEK  
 X = A - MONDAY  
 B - TUESDAY  
 C - WEDNESDAY  
 D - THURSDAY  
 E - FRIDAY  
 F - SATURDAY  
 G - SUNDAY

### Recommended Layout



### Electrical Schematic



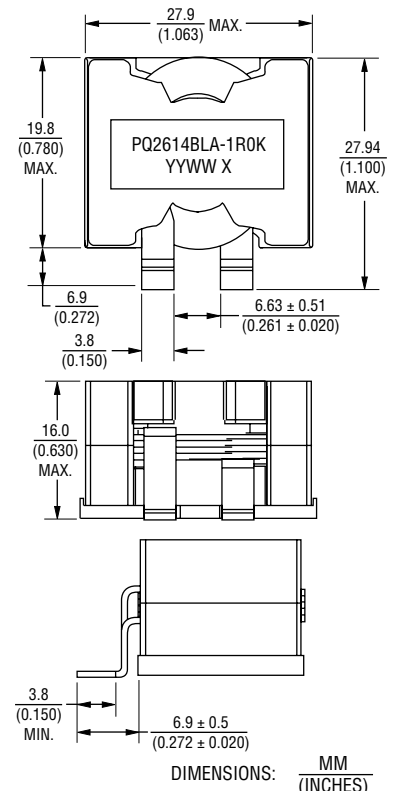
### General Specifications

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

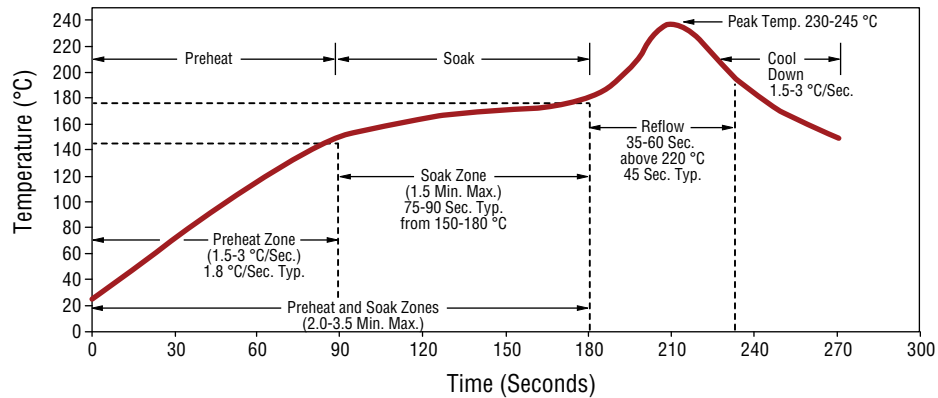
### Product Dimensions



\* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

\*\*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. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at [www.bourns.com/docs/legal/disclaimer.pdf](http://www.bourns.com/docs/legal/disclaimer.pdf). Users should verify actual device performance in their specific applications.

**Soldering Profile**



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