

**BOURNS®**

### Features

- High current up to 5 A
- RoHS compliant\*

### Applications

- DC/DC converters
- Power supplies
- General use

## LPA Series Axial Power Inductors

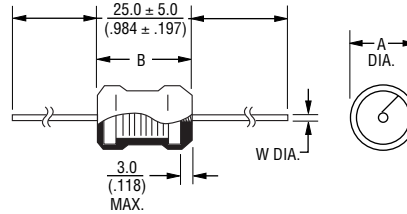
#### General Specifications

Temperature Rise .....45 °C max. at rated current  
 Operating Temperature...-40 °C to +85 °C  
 Storage Temperature ..-40 °C to +105 °C

#### Materials

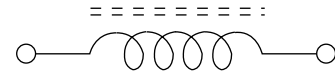
Core Material .....Ferrite DR core  
 Wire .....Enamelled copper wire  
 Terminal .....Cu/Sn  
 Tube.....Shrinkable tube 125 °C, 600 V

#### Product Dimensions



DIMENSIONS ARE:  $\frac{\text{MM}}{\text{(INCHES)}}$

#### Electrical Schematic



#### Electrical Characteristics and Product Dimensions

| BOURNS Part No. | Inductance (μH) 1KHz | RDC (Ω) max. | IDC (A) max. | Dimensions            |                        |   |
|-----------------|----------------------|--------------|--------------|-----------------------|------------------------|---|
|                 |                      |              |              | A max.                | B max.                 | W dia.                                  |
| LPA0618-100KL   | 10 ± 10 %            | 0.075        | 2.00         | $\frac{6.0}{(.236)}$  | $\frac{18.0}{(.709)}$  | $\frac{0.65 \pm 0.05}{(.026 \pm .002)}$ |
| LPA0618-250KL   | 25 ± 10 %            | 0.150        | 1.20         | $\frac{6.0}{(.236)}$  | $\frac{18.0}{(.709)}$  | $\frac{0.65 \pm 0.05}{(.026 \pm .002)}$ |
| LPA0618-500KL   | 50 ± 10 %            | 0.200        | 0.80         | $\frac{6.0}{(.236)}$  | $\frac{18.0}{(.709)}$  | $\frac{0.65 \pm 0.05}{(.026 \pm .002)}$ |
| LPA0618-101KL   | 100 ± 10 %           | 0.300        | 0.60         | $\frac{6.0}{(.236)}$  | $\frac{18.0}{(.709)}$  | $\frac{0.65 \pm 0.05}{(.026 \pm .002)}$ |
| LPA0618-251KL   | 250 ± 10 %           | 1.000        | 0.40         | $\frac{6.0}{(.236)}$  | $\frac{18.0}{(.709)}$  | $\frac{0.65 \pm 0.05}{(.026 \pm .002)}$ |
| LPA0618-501KL   | 500 ± 10 %           | 2.000        | 0.25         | $\frac{6.0}{(.236)}$  | $\frac{18.0}{(.709)}$  | $\frac{0.65 \pm 0.05}{(.026 \pm .002)}$ |
| LPA0618-102KL   | 1000 ± 10 %          | 3.000        | 0.20         | $\frac{6.0}{(.236)}$  | $\frac{18.0}{(.709)}$  | $\frac{0.65 \pm 0.05}{(.026 \pm .002)}$ |
| LPA1020-100KL   | 10 ± 10 %            | 0.050        | 3.50         | $\frac{10.0}{(.394)}$ | $\frac{20.0}{(.787)}$  | $\frac{0.65 \pm 0.05}{(.026 \pm .002)}$ |
| LPA1020-250KL   | 25 ± 10 %            | 0.085        | 2.50         | $\frac{10.0}{(.394)}$ | $\frac{20.0}{(.787)}$  | $\frac{0.65 \pm 0.05}{(.026 \pm .002)}$ |
| LPA1020-500KL   | 50 ± 10 %            | 0.120        | 2.00         | $\frac{10.0}{(.394)}$ | $\frac{20.0}{(.787)}$  | $\frac{0.65 \pm 0.05}{(.026 \pm .002)}$ |
| LPA1020-101KL   | 100 ± 10 %           | 0.180        | 1.40         | $\frac{10.0}{(.394)}$ | $\frac{20.0}{(.787)}$  | $\frac{0.65 \pm 0.05}{(.026 \pm .002)}$ |
| LPA1020-251KL   | 250 ± 10 %           | 0.500        | 0.80         | $\frac{10.0}{(.394)}$ | $\frac{20.0}{(.787)}$  | $\frac{0.65 \pm 0.05}{(.026 \pm .002)}$ |
| LPA1020-501KL   | 500 ± 10 %           | 1.000        | 0.60         | $\frac{10.0}{(.394)}$ | $\frac{20.0}{(.787)}$  | $\frac{0.65 \pm 0.05}{(.026 \pm .002)}$ |
| LPA1020-102KL   | 1000 ± 10 %          | 2.200        | 0.40         | $\frac{10.0}{(.394)}$ | $\frac{20.0}{(.787)}$  | $\frac{0.65 \pm 0.05}{(.026 \pm .002)}$ |
| LPA1226-100KL   | 10 ± 10 %            | 0.030        | 5.0          | $\frac{12.0}{(.472)}$ | $\frac{26.0}{(1.024)}$ | $\frac{0.8 \pm 0.05}{(.031 \pm .002)}$  |
| LPA1226-250KL   | 25 ± 10 %            | 0.045        | 4.0          | $\frac{12.0}{(.472)}$ | $\frac{26.0}{(1.024)}$ | $\frac{0.8 \pm 0.05}{(.031 \pm .002)}$  |
| LPA1226-500KL   | 50 ± 10 %            | 0.080        | 3.0          | $\frac{12.0}{(.472)}$ | $\frac{26.0}{(1.024)}$ | $\frac{0.8 \pm 0.05}{(.031 \pm .002)}$  |
| LPA1226-101KL   | 100 ± 10 %           | 0.125        | 2.0          | $\frac{12.0}{(.472)}$ | $\frac{26.0}{(1.024)}$ | $\frac{0.8 \pm 0.05}{(.031 \pm .002)}$  |
| LPA1226-251KL   | 250 ± 10 %           | 0.300        | 1.2          | $\frac{12.0}{(.472)}$ | $\frac{26.0}{(1.024)}$ | $\frac{0.8 \pm 0.05}{(.031 \pm .002)}$  |
| LPA1226-501KL   | 500 ± 10 %           | 0.500        | 0.8          | $\frac{12.0}{(.472)}$ | $\frac{26.0}{(1.024)}$ | $\frac{0.8 \pm 0.05}{(.031 \pm .002)}$  |
| LPA1226-102KL   | 1000 ± 10 %          | 1.200        | 0.6          | $\frac{12.0}{(.472)}$ | $\frac{26.0}{(1.024)}$ | $\frac{0.8 \pm 0.05}{(.031 \pm .002)}$  |

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Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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