

**BOURNS®**

### Features

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

### Applications

- DC/DC converters
- Power supplies
- General use

## LPA Series Axial Power Inductors

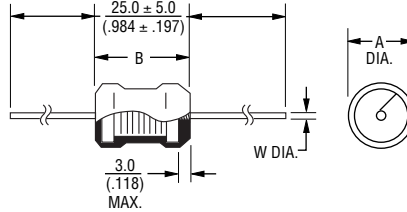
#### General Specifications

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

#### Materials

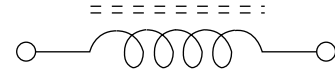
Core Material .....Ferrite DR core  
 Wire .....Enamelled copper wire  
 Terminal .....Cu/Sn  
 Tube.....Shrinkable tube 125 °C, 600 V

#### 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	$\frac{12.0}{(.472)}$	$\frac{26.0}{(1.024)}$	$\frac{0.8 \pm 0.05}{(.031 \pm .002)}$

REV. 09/09

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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