

### Features

- High current up to 3.5 A
- RoHS compliant\*

### Applications

- DC-DC converters
- Power supplies
- General use

## LPA Series Axial Power Inductors

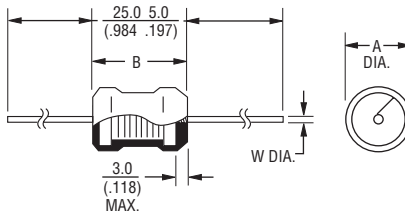
#### General Specifications

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 ..... Enameled copper wire  
 Terminal..... Cu/Sn  
 Tube .....Shrinkable tube 125 °C, 600 V

#### Product Dimensions



#### Additional Information

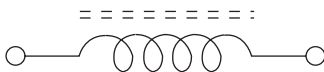
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#### Electrical Characteristics and Product Dimensions

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	$\frac{10.0}{(.394)}$	$\frac{20.0}{(.787)}$	$\frac{0.65 \pm 0.05}{(.026 \pm .002)}$

#### Electrical Schematic



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



**CALIFORNIA WARNING** Can expose you to lead, a carcinogen and reproductive toxicant.  
 See [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

REV. 08/25

\*RoHS Directive 2015/863, Mar 31, 2015 and Annex.  
 Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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