



**BOURNS®**

### Features

- High current up to 10 A
- RoHS compliant\*



This series is currently available but not recommended for new designs.

### Applications

- DC/DC converters
- Power supplies

## LPV Series Radial Power Inductors

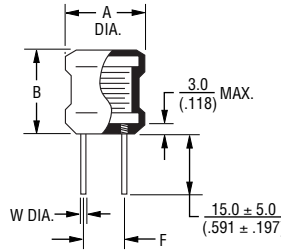
### General Specifications

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

### Materials

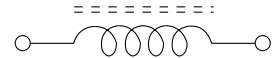
Core Material .....Ferrite DR core  
 Wire .....Enamelled copper wire  
 Terminal .....Cu/Sn  
 Tube.....Shrinkable tube 125 °C, 600 V

### 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.	F	W dia.
LPV1620-100ML	10 ± 20 %	0.024	5.0	$\frac{16.0}{(.630)}$	$\frac{20.0}{(.787)}$	$\frac{8.0 \pm 1.5}{(.315 \pm .059)}$	$\frac{1.0 \pm 0.1}{(.039 \pm .004)}$
LPV1620-250KL	25 ± 10 %	0.040	4.0	$\frac{16.0}{(.630)}$	$\frac{20.0}{(.787)}$	$\frac{8.0 \pm 1.5}{(.315 \pm .059)}$	$\frac{1.0 \pm 0.1}{(.039 \pm .004)}$
LPV1620-500KL	50 ± 10 %	0.060	3.0	$\frac{16.0}{(.630)}$	$\frac{20.0}{(.787)}$	$\frac{8.0 \pm 1.5}{(.315 \pm .059)}$	$\frac{1.0 \pm 0.1}{(.039 \pm .004)}$
LPV1620-101KL	100 ± 10 %	0.090	2.0	$\frac{16.0}{(.630)}$	$\frac{20.0}{(.787)}$	$\frac{8.0 \pm 1.5}{(.315 \pm .059)}$	$\frac{1.0 \pm 0.1}{(.039 \pm .004)}$
LPV1620--251KL	250 ± 10 %	0.180	1.5	$\frac{16.0}{(.630)}$	$\frac{20.0}{(.787)}$	$\frac{8.0 \pm 1.5}{(.315 \pm .059)}$	$\frac{1.0 \pm 0.1}{(.039 \pm .004)}$
LPV1620-501KL	500 ± 10 %	0.400	1.0	$\frac{16.0}{(.630)}$	$\frac{20.0}{(.787)}$	$\frac{8.0 \pm 1.5}{(.315 \pm .059)}$	$\frac{1.0 \pm 0.1}{(.039 \pm .004)}$
LPV1620-102KL	1000 ± 10 %	0.800	0.7	$\frac{16.0}{(.630)}$	$\frac{20.0}{(.787)}$	$\frac{8.0 \pm 1.5}{(.315 \pm .059)}$	$\frac{1.0 \pm 0.1}{(.039 \pm .004)}$
LPV1823-100ML	10 ± 20 %	0.009	8.0	$\frac{18.0}{(.709)}$	$\frac{23.0}{(.906)}$	$\frac{14.0 \pm 1.5}{(.551 \pm .059)}$	$\frac{1.2 \pm 0.1}{(.047 \pm .004)}$
LPV1823-250KL	25 ± 10 %	0.022	6.0	$\frac{18.0}{(.709)}$	$\frac{23.0}{(.906)}$	$\frac{14.0 \pm 1.5}{(.551 \pm .059)}$	$\frac{1.0 \pm 0.1}{(.039 \pm .004)}$
LPV1823-500KL	50 ± 10 %	0.036	4.0	$\frac{18.0}{(.709)}$	$\frac{23.0}{(.906)}$	$\frac{14.0 \pm 1.5}{(.551 \pm .059)}$	$\frac{1.0 \pm 0.1}{(.039 \pm .004)}$
LPV1823-101KL	100 ± 10 %	0.090	3.0	$\frac{18.0}{(.709)}$	$\frac{23.0}{(.906)}$	$\frac{9.0 \pm 1.5}{(.354 \pm .059)}$	$\frac{1.0 \pm 0.1}{(.039 \pm .004)}$
LPV1823-251KL	250 ± 10 %	0.150	2.0	$\frac{18.0}{(.709)}$	$\frac{23.0}{(.906)}$	$\frac{9.0 \pm 1.5}{(.354 \pm .059)}$	$\frac{1.0 \pm 0.1}{(.039 \pm .004)}$
LPV1823-501KL	500 ± 10 %	0.300	1.2	$\frac{18.0}{(.709)}$	$\frac{23.0}{(.906)}$	$\frac{9.0 \pm 1.5}{(.354 \pm .059)}$	$\frac{1.0 \pm 0.1}{(.039 \pm .004)}$
LPV1823-102KL	1000 ± 10 %	0.600	1.0	$\frac{18.0}{(.709)}$	$\frac{23.0}{(.906)}$	$\frac{9.0 \pm 1.5}{(.354 \pm .059)}$	$\frac{1.0 \pm 0.1}{(.039 \pm .004)}$
LPV2023-100ML	10 ± 20 %	0.008	10.0	$\frac{20.0}{(.787)}$	$\frac{23.0}{(.906)}$	$\frac{15.5 \pm 1.5}{(.610 \pm .059)}$	$\frac{1.3 \pm 0.1}{(.051 \pm .004)}$
LPV2023-500KL	50 ± 10 %	0.032	5.0	$\frac{20.0}{(.787)}$	$\frac{23.0}{(.906)}$	$\frac{15.5 \pm 1.5}{(.610 \pm .059)}$	$\frac{1.0 \pm 0.1}{(.039 \pm .004)}$
LPV2023-101KL	100 ± 10 %	0.060	4.0	$\frac{20.0}{(.787)}$	$\frac{23.0}{(.906)}$	$\frac{15.5 \pm 1.5}{(.610 \pm .059)}$	$\frac{1.0 \pm 0.1}{(.039 \pm .004)}$
LPV2023-251KL	250 ± 10 %	0.140	2.5	$\frac{20.0}{(.787)}$	$\frac{23.0}{(.906)}$	$\frac{12.5 \pm 1.5}{(.492 \pm .059)}$	$\frac{1.0 \pm 0.1}{(.039 \pm .004)}$
LPV2023-501KL	500 ± 10 %	0.280	1.5	$\frac{20.0}{(.787)}$	$\frac{23.0}{(.906)}$	$\frac{12.5 \pm 1.5}{(.492 \pm .059)}$	$\frac{1.0 \pm 0.1}{(.039 \pm .004)}$
LPV2023-102KL	1000 ± 10 %	0.550	1.2	$\frac{20.0}{(.787)}$	$\frac{23.0}{(.906)}$	$\frac{12.5 \pm 1.5}{(.492 \pm .059)}$	$\frac{1.0 \pm 0.1}{(.039 \pm .004)}$
LPV2023-202KL	2000 ± 10 %	1.200	0.8	$\frac{20.0}{(.787)}$	$\frac{23.0}{(.906)}$	$\frac{12.5 \pm 1.5}{(.492 \pm .059)}$	$\frac{1.0 \pm 0.1}{(.039 \pm .004)}$



**WARNING Cancer and Reproductive Harm**  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.  
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