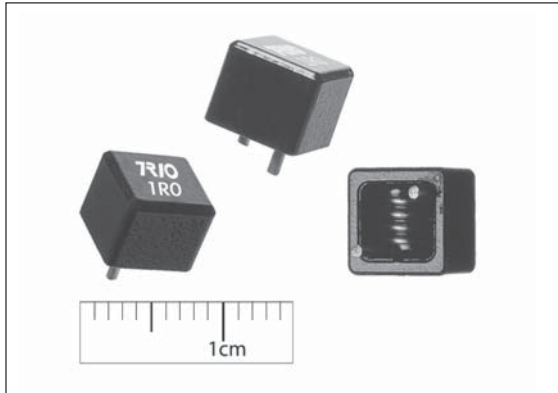


DIP POWER INDUCTORS (LD SERIES)

trio



● PART NUMBERING

LD - □□□ □ □□ □ □□
(1) (2) (3) (4) (5) (6)

- (1) Series
- (2) Inductance
- (3) Tolerance
- (4) Dimension
- (5) Material
- (6) Internal Serial No.

● FEATURES

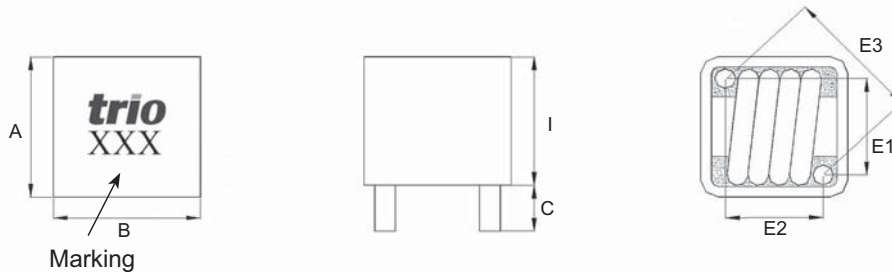
- High current inductors low voltage.
- Low radiation and low core loss.
- Less flux leakage and beat.
- Low DCR.
- Available in tape and reel package.

● APPLICATIONS

- High Frequency SMP
- Switching Power Supplies
- Countermeasure against spike ripples
- EMI/RFI Filters
- High current DC/DC Converters for Desktops & Servers
- Input & Output Devices

LD
05

● CONFIGURATIONS & DIMENSIONS



Unit : mm

SERIES	A	B	C	E1	E2	E3	I
LD-240	8.30 Max.	8.30 Max.	3.4±0.5	3.4±0.5	4.5±0.5	5.6±0.5	6.50 Max.
LD-100	10.7 Max.	10.7 Max.	3.4±0.5	6.0±0.5	5.0±0.5	7.8±0.5	9.60 Max.
LD-110	11.7 Max.	11.7 Max.	3.4±0.5	6.5±0.5	6.0±0.5	8.8±0.5	9.60 Max.
LD-010	12.5 Max.	12.5 Max.	3.4±0.5	7.3±0.5	6.0±0.5	9.4±0.5	10.0 Max.

● ELECTRICAL CHARACTERISTICS

New Part No.	Old Part No.	L (μ H)	DCR (Ω , Max.)	Isat (A, Max.)	I _{rms} (A, Max.)
LD-47B□240□□	BIG0706-R47□	0.47	0.0023	25	17
LD-73B□240□□	BIG0706-R73□	0.73	0.0028	16	13
LD-10A□240□□	BIG0706-1R0□	1.00	0.0043	14	10
LD-12A□240□□	BIG0706-1R2□	1.20	0.0065	13	12
LD-14A□240□□	BIG0706-1R4□	1.40	0.0065	12	11
LD-25B□100□□	BIG1009-R25□	0.25	0.00072	40	35
LD-33B□100□□	BIG1009-R33□	0.33	0.0013	30	25
LD-47B□100□□	BIG1009-R47□	0.47	0.0010	30	25
LD-50B□100□□	BIG1009-R50□	0.50	0.0014	38	32
LD-55B□100□□	BIG1009-R55□	0.55	0.0024	30	25
LD-68B□100□□	BIG1009-R68□	0.68	0.0025	28	25
LD-10A□100□□	BIG1009-1R0□	1.00	0.0023	25	14
LD-14A□100□□	BIG1009-1R4□	1.40	0.0025	13	10
LD-20A□100□□	BIG1009-2R0□	2.00	0.0045	20	18
LD-27B□110□□	BIG1109-R27□	0.27	0.0007	40	36
LD-33B□110□□	BIG1109-R30□	0.30	0.00086	40	38
LD-36B□110□□	BIG1109-R36□	0.33	0.00086	40	36
LD-39B□110□□	BIG1109-R39□	0.36	0.0010	40	35
LD-47B□110□□	BIG1109-R47□	0.47	0.0011	35	30
LD-50B□110□□	BIG1109-R50□	0.50	0.00086	40	38
LD-60B□110□□	BIG1109-R60□	0.60	0.00086	40	38
LD-68B□110□□	BIG1109-R68□	0.68	0.00086	40	35
LD-10A□110□□	BIG1109-1R0□	1.00	0.0016	32	25
LD-11A□110□□	BIG1109-1R1□	1.10	0.0016	30	25
LD-12A□110□□	BIG1109-1R2□	1.20	0.0020	35	30
LD-15A□110□□	BIG1109-1R5□	1.50	0.0030	26	23
LD-20A□110□□	BIG1109-2R0□	2.00	0.0040	23	20
LD-30B□010□□	BIG1210-R30□	0.30	0.0011	40	35
LD-60B□010□□	BIG1210-R60□	0.60	0.0011	40	35
LD-80B□010□□	BIG1210-R80□	0.80	0.0018	40	35
LD-10A□010□□	BIG1210-1R0□	1.00	0.0018	40	35
LD-15A□010□□	BIG1210-1R5□	1.50	0.0020	38	26
LD-20A□010□□	BIG1210-2R0□	2.00	0.0037	30	21
LD-25A□010□□	BIG1210-2R5□	2.50	0.0060	17	15

LD
06

- Tested at 25°C, 100 KHz, 1V.
- Temperature rise : 40°C Typ. at I_{rms}
- Inductance drop : 20% Typ. at Isat
- Operating temperature : -55°C to +105°C
- Storage temperature : -40°C to +85°C