

Primary Single-Turn (LB2) Series

The series of LB2 Miniature current transformers are designed specifically for integration into products which require exceptionally accurate primary signal transfor-mation while exposed to harsh environmental operating con-ditions. An internal precision resistor across the secondary winding of the CT provides a low safe voltage output. It can save time and the installation costs.

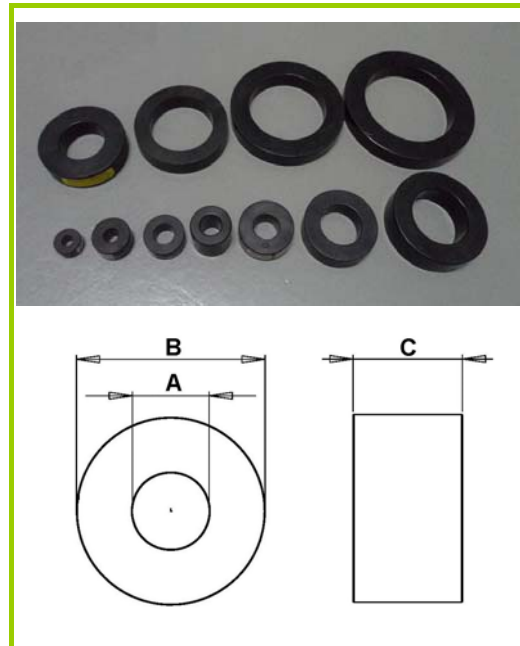
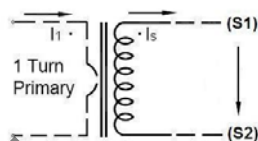
◆ **Features**

- Primary Single-Turn
- Wide inner window, allowing clamping of big cables or bus-bars
- Wide range of sizes to accommodate all the existing installations

◆ **Applications**

- Current measurement, monitoring and protection for electrical wiring and equipment.
- Instrumentation, Current and power measurement for electric motors, lighting, air compressor, heating and ventilation system, air-condition equipment and automation – control system.
- Current, power, and energy monitoring device.
- Relay protection device.

◆ **Circuit connection diagram**



◆ **Technique Index**

Electrical Parameter	
Frequency	50-400Hz
Rated Input	0-10000A
Measuring range	5%In-120%In
Rated Output	0-100mA
Ratio	± 0.1%
Phase angle	± 5 分
Dielectric strength	2.5KV/1mA/1min
Insulation Resistance	DC500V/1000MΩ min

Mechanical Parameter	
Case	PBT /UL94-V0
Bobbin	PBT
Core	Permalloy or Nanocrystalline
Internal structure	Epoxy
Construction	-----
Operating Temp	-25℃~+75℃
Operating Humidity	≤85%
Output Connection	Leads

◆ **Type Selection**

Mfg P/N	Rated Input (A)	Ratio	Burden (Ω)	Accuracy	Dimensions (mm)		
					A	B	C
LB2-9	1-50A	1000: 1 2000: 1 2500: 1 3000: 1 5000: 1	≤50	0.1、0.2	9.0	25.0	14.0
LB2-10	1-50A		≤50	0.1、0.2	10.0	24.5	14.2
LB2-12	1-80A		≤100	0.1、0.2	11.5	33.7	24.5
LB2-13	10-100A		≤100	0.1、0.2	13.0	36.0	20.0
LB2-25	20-400A		≤200	0.1、0.2	25.0	55.0	20.0
LB2-32	50-600A		≤200	0.1、0.2	32.0	60.0	20.0
LB2-45	100-1000A		≤200	0.1、0.2	45.0	88.0	24.0
LB2-50	400-1200A		≤200	0.1、0.2	50.0	112.0	35.0
LB2-70	600-2000A		≤200	0.1、0.2	70.5	105.5	20.3
LB2-80	800-2500A		≤200	0.1、0.2	80.0	125.0	30.0
LB2-90	1000-3000A		≤200	0.1、0.2	90.0	135.0	42.0
LB2-110	1000-5000A		≤200	0.1、0.2	110.0	162.0	42.0
LB2-220	2000-10000A	≤200	0.1、0.2	220.0	269.0	36.0	

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