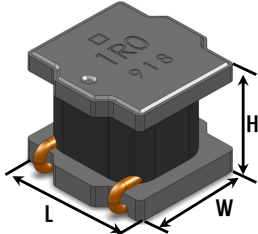


# LPH5045-ER TYPE

## Data Sheet

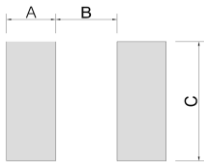
SMD Winding Power Inductor

### Component Image & Dimension



TYPE	Dimension(mm)		
	L	W	H
5045-ER	5.0±0.3	5.0±0.3	4.5 Max.

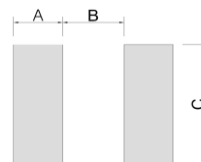
### Pad Size



TYPE	5045-ER
A	1.4±0.2
B	2.2±0.2
C	4.0±0.2

Unit : mm

### Recommended Land Pattern



TYPE	5045-ER
A	1.60
B	2.00
C	4.20

Unit : mm

### Features

- Shield type winding inductor for power circuits.
- Generic use for DC/DC Converter Line.
- Ferrite powder Molding component.
- Halogen-Free and RoHS compliant.
- AEC-Q200 Qualified.

### Application

DC-DC Converter for LCD-TV, Printer, Note PC etc.

### Electrical Specification

ABCO Identification	Inductance		Test Freq.	DC Resistance(Ω)		Rated DC Current(A)	
	Spec.	Tol.		Max.	typ.	Idc1[Isat]	Idc2[Irms]
	uH	%				KHz	Max.[typ.]
LPH5045T - R47M - ER	0.47	±20	100	0.0090	0.0075	12.5 [14.00]	6.30 [10.00]
LPH5045T - 1R0M - ER	1.0	±20	100	0.0195	0.0100	8.90 [10.60]	5.40 [8.30]
LPH5045T - 2R2M - ER	2.2	±20	100	0.0230	0.0150	5.00 [7.50]	3.50 [6.70]
LPH5045T - 100M - ER	10.0	±20	100	0.0684	0.0570	2.30 [3.40]	2.10 [4.40]
LPH5045T - 220M - ER	22.0	±20	100	0.1690	0.1250	1.85 [2.30]	1.80 [2.50]

- Rated DC Current : Value defined when DC current flows and the initial value of inductance has decreased by 30% or when current flows and temperature has risen to 40°C whichever is smaller.
- Idc1[Isat] : The DC saturation current value is specified when the decrease of the initial inductance value at 30%.
- Idc2[Irms] : The temperature rise current value is specified when temperature of the inductor is raised 40°C by DC current.
- Operating temperature range : - 40 to +125°C (Including self-temperature rise)