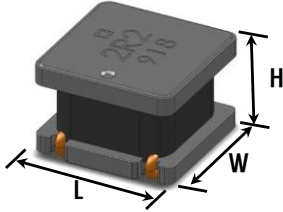


LPH6045-ER TYPE

Data Sheet

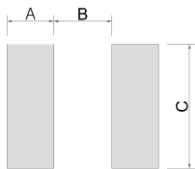
SMD Winding Power Inductor

Component Image & Dimension



| TYPE | Dimension(mm) | | |
|---------|---------------|---------|----------|
| | L | W | H |
| 6045-ER | 6.0±0.3 | 6.0±0.3 | 4.5 Max. |

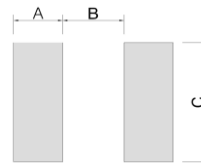
Pad Size



| TYPE | 6045-ER |
|------|----------|
| A | 1.65±0.2 |
| B | 2.70±0.2 |
| C | 4.90±0.2 |

Unit : mm

Recommended Land Pattern



| TYPE | 6045-ER |
|------|---------|
| A | 1.85 |
| B | 2.50 |
| C | 5.10 |

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.] |
| LPH6045T - 2R2M - ER | 2.2 | ±20 | 100 | 0.024 | 0.014 | 7.50 [8.50] | 5.50 [8.00] |
| LPH6045T - 3R3M - ER | 3.3 | ±20 | 100 | 0.030 | 0.018 | 6.50 [7.00] | 4.95 [7.30] |
| LPH6045T - 4R7M - ER | 4.7 | ±20 | 100 | 0.035 | 0.023 | 5.80 [6.30] | 4.20 [6.80] |
| LPH6045T - 100M - ER | 10.0 | ±20 | 100 | 0.046 | 0.039 | 3.10 [4.20] | 2.40 [4.90] |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

- 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)