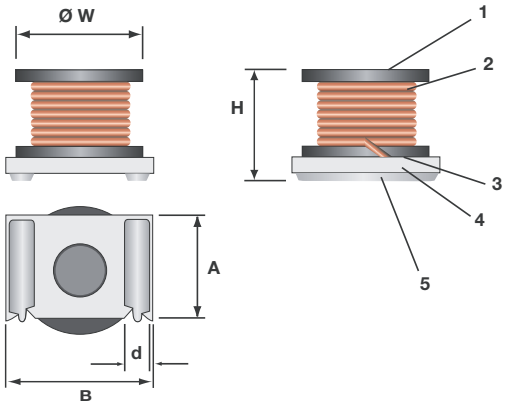
# FERRITE CORE

## POWER INDUCTOR

## LPC 10065




## STRUCTURE

1 Ferrite core
2 Winding wire
3 Epoxy adhesive
4 Ceramic substrate
5 Electrode

## IDENTIFICATION

| PRODUCT CODE | COATING COLOR | MARKING |
|---|---|---|
| LPC 10065 | None | None |

## TYPE DESIGNATION (HOW TO ORDER)

| | | | | | | |
|---|---|---|---|---|---|---|
| Old Part No. | LPC 10065 | | K | TE | 221 | |
| New Part No. | LPC 10065 | L | | TE | 221 | K |
| | PRODUCT CODE | TERMINATION SURFACE MATERIAL<br>L: Sn/Pb<br>A: SnAg | INDUCTANCE TOLERANCE | TAPING*<br>*Please see "PACKAGING" | NOMINAL INDUCTANCE<br>3 digits<br>(Unit: µH) | INDUCTANCE TOLERANCE |

## FEATURES

- Large permissible DC current and small DC resistance
- Small surface area allows high mounting density
- Small size and low height
- Suitable for reflow soldering
- Operating temperature range: - 40° C ... + 85° C
- Inductors for extended ambient temperature range: -40° C ... + 125° C on request (Type LPC 10065 E K TE xxx) (10 µH ... 3300 µH)
- Embossed carrier tape packaging available

## DIMENSIONS (mm)

| PRODUCT CODE | ∅ W | H | A | B | d |
|---|---|---|---|---|---|
| LPC 10065 | 10.0 ± 0.2 | 7.5 max. | 8.0 ± 0.2 | 10.4 ± 0.2 | 2.5 ± 0.2 |



## RATING

| TYPE | INDUCTANCE | | | QUALITY FACTOR | | SELF-RESONANT FREQUENCY (MIN.) | DC RESISTANCE (MAX.) | ALLOWABLE DC CURRENT (MAX.) |
|---|---|---|---|---|---|---|---|---|
| | NOM. VALUE* | TOLERANCE | FREQUENCY | Q (MIN.) | FREQUENCY | | | |
| LPC 10065 TE R68 | 0.68 µH | M (± 20%) | 1 MHz | 15 | 2.52 MHz | 75.0 MHz | 0.006 Ω | 9.50 A |
| LPC 10065 TE 1R0 | 1.0 µH | | | | | 65.0 MHz | 0.007 Ω | 9.00 A |
| LPC 10065 TE 1R5 | 1.5 µH | | | | | 50.0 MHz | 0.008 Ω | 8.50 A |
| LPC 10065 TE 2R2 | 2.2 µH | | | | | 40.0 MHz | 0.009 Ω | 7.50 A |
| LPC 10065 TE 3R3 | 3.3 µH | | | | | 30.0 MHz | 0.012 Ω | 6.80 A |
| LPC 10065 TE 4R7 | 4.7 µH | | | 30 | | 25.0 MHz | 0.017 Ω | 5.70 A |
| LPC 10065 TE 6R8 | 6.8 µH | | | | | 20.0 MHz | 0.024 Ω | 4.70 A |
| LPC 10065 TE 100 | 10 µH | K (± 10%) | | 20 | | 15.0 MHz | 0.036 Ω | 3.90 A |
| LPC 10065 TE 150 | 15 µH | | | | | 12.0 MHz | 0.054 Ω | 3.15 A |
| LPC 10065 TE 220 | 22 µH | | | | | 9.00 MHz | 0.080 Ω | 2.60 A |
| LPC 10065 TE 330 | 33 µH | | | 15 | | 8.00 MHz | 0.120 Ω | 2.30 A |
| LPC 10065 TE 470 | 47 µH | | | | | 6.00 MHz | 0.175 Ω | 1.79 A |
| LPC 10065 TE 680 | 68 µH | | | | | 5.00 MHz | 0.255 Ω | 1.48 A |
| LPC 10065 TE 101 | 100 µH | | 0.1 MHz | 20 | 0.1 MHz | 4.00 MHz | 0.38 Ω | 1.22 A |
| LPC 10065 TE 151 | 150 µH | | | | | 3.00 MHz | 0.58 Ω | 1.00 A |
| LPC 10065 TE 221 | 220 µH | | | | | 2.50 MHz | 0.85 Ω | 0.82 A |
| LPC 10065 TE 331 | 330 µH | | | | | 2.00 MHz | 1.30 Ω | 0.67 A |
| LPC 10065 TE 471 | 470 µH | | | | | 1.50 MHz | 1.85 Ω | 0.57 A |
| LPC 10065 TE 681 | 680 µH | | | | | 1.00 MHz | 2.70 Ω | 0.47 A |
| LPC 10065 TE 102 | 1000 µH | | 0.05 MHz | 30 | | 0.95 MHz | 4.00 Ω | 0.38 A |
| LPC 10065 TE 152 | 1500 µH | | | | | 0.85 MHz | 6.10 Ω | 0.31 A |
| LPC 10065 TE 222 | 2200 µH | | | | | 0.70 MHz | 9.00 Ω | 0.26 A |
| LPC 10065 TE 332 | 3300 µH | | | | | 0.55 MHz | 13.50 Ω | 0.21 A |

* Other inductance values on request