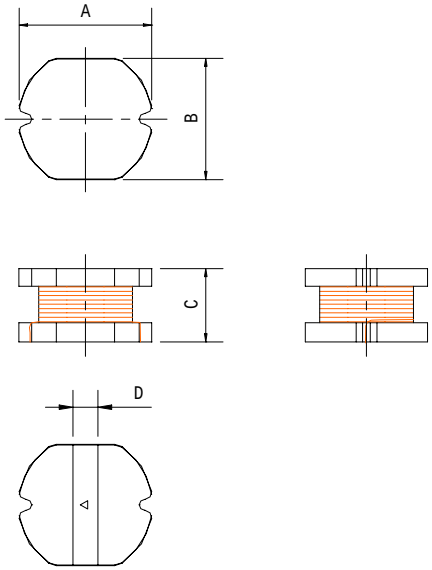
# SMT Power Inductors - CDR Series

## MECHANICAL DIMENSIONS (mm)




| | CDR 0503 | CDR 0605 | CDR 0703 | CDR 0805 | CDR 1004 | CDR 1005 |
|---|---|---|---|---|---|---|
| A | 4.5±0.3 | 5.8±0.3 | 7.8±0.3 | 7.8±0.3 | 10.0±0.3 | 10.0±0.3 |
| B | 4.0±0.3 | 5.2±0.3 | 7.0±0.3 | 7±0.3 | 9.0±0.3 | 9.0±0.3 |
| C | 3.2±0.3 | 4.5±0.3 | 3.5±0.3 | 5.0±0.3 | 4.0±0.3 | 5.4±0.3 |
| D | 1.4 | 1.7 | 1.9 | 1.9 | 2.5 | 2.5 |

## FEATURES:

Surface mount style,high Bm,low DC resistance.

## APPLICATIONS:

Portable communication epuipment,Notebook PC,

Camcorder,LCD Television Set.

## ELECTRICAL CHARACTERISICS

| Inductance L(uH) | DCR(Ω)Max | | | | | | Rated D.C Current(A) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CDR 0503 | CDR 0605 | CDR 0703 | CDR 0805 | CDR 1004 | CDR 1005 | CDR 0503 | CDR 0605 | CDR 0703 | CDR 0805 | CDR 1004 | CDR 1005 |
| 1.0 | 0.049 | | | | | | 2.56 | | | | | |
| 1.4 | 0.057 | | | | | | 2.52 | | | | | |
| 1.8 | 0.064 | | | | | | 1.95 | | | | | |
| 2.2 | 0.072 | | | | | | 1.75 | | | | | |
| 2.7 | 0.079 | | | | | | 1.58 | | | | | |
| 3.3 | 0.087 | | | | | | 1.44 | | | | | |
| 3.9 | 0.094 | | | | | | 1.33 | | | | | |
| 4.7 | 0.109 | | | | | | 1.15 | | | | | |
| 5.6 | 0.126 | | | | | | 0.99 | | | | | |
| 6.8 | 0.132 | | | | | | 0.95 | | | | | |
| 8.2 | 0.147 | | | | | | 0.84 | | | | | |
| 10 | 0.182 | 0.10 | 0.08 | 0.07 | 0.05 | 0.06 | 1.04 | 1.44 | 1.44 | 2.30 | 2.38 | 2.60 |
| 12 | 0.210 | 0.12 | 0.09 | 0.08 | 0.06 | 0.07 | 0.97 | 1.40 | 1.39 | 2.00 | 2.13 | 2.45 |
| 15 | 0.235 | 0.14 | 0.10 | 0.09 | 0.07 | 0.08 | 0.85 | 1.30 | 1.24 | 1.80 | 1.87 | 2.27 |
| 18 | 0.338 | 0.15 | 0.11 | 0.10 | 0.08 | 0.09 | 0.74 | 1.23 | 1.12 | 1.60 | 1.73 | 2.15 |
| 22 | 0.378 | 0.18 | 0.13 | 0.11 | 0.09 | 0.10 | 0.68 | 1.11 | 1.07 | 1.50 | 1.60 | 1.95 |
| 27 | 0.552 | 0.20 | 0.15 | 0.12 | 0.10 | 0.11 | 0.62 | 0.97 | 0.94 | 1.30 | 1.44 | 1.76 |
| 33 | 0.540 | 0.23 | 0.17 | 0.13 | 0.12 | 0.12 | 0.56 | 0.88 | 0.85 | 1.20 | 1.26 | 1.50 |
| 39 | 0.587 | 0.32 | 0.22 | 0.16 | 0.15 | 0.14 | 0.52 | 0.80 | 0.74 | 1.10 | 1.20 | 1.37 |
| 47 | 0.884 | 0.37 | 0.25 | 0.18 | 0.17 | 0.17 | 0.44 | 0.72 | 0.68 | 1.10 | 1.10 | 1.28 |
| 56 | 0.937 | 0.42 | 0.28 | 0.24 | 0.20 | 0.19 | 0.42 | 0.68 | 0.64 | 0.94 | 1.01 | 1.17 |
| 68 | 1.117 | 0.46 | 0.33 | 0.28 | 0.22 | 0.22 | 0.37 | 0.61 | 0.59 | 0.85 | 0.91 | 1.11 |
| 82 | | 0.60 | 0.41 | 0.37 | 0.25 | 0.25 | | 0.58 | 0.54 | 0.78 | 0.85 | 1.00 |
| 100 | | 0.70 | 0.48 | 0.43 | 0.34 | 0.35 | | 0.52 | 0.51 | 0.72 | 0.74 | 0.97 |
| 120 | | 0.93 | 0.54 | 0.47 | 0.40 | 0.40 | | 0.48 | 0.49 | 0.66 | 0.69 | 0.89 |
| 150 | | 1.10 | 0.75 | 0.64 | 0.54 | 0.47 | | 0.40 | 0.40 | 0.58 | 0.61 | 0.78 |
| 180 | | 1.38 | 1.02 | 0.71 | 0.62 | 0.63 | | 0.38 | 0.36 | 0.51 | 0.56 | 0.72 |
| 220 | | 1.57 | 1.20 | 0.96 | 0.72 | 0.73 | | 0.35 | 0.31 | 0.49 | 0.53 | 0.66 |
| 270 | | | 1.31 | 1.11 | 0.95 | 0.97 | | | 0.29 | 0.42 | 0.45 | 0.57 |
| 330 | | | 1.50 | 1.26 | 1.10 | 1.15 | | | 0.28 | 0.40 | 0.42 | 0.52 |
| 390 | | | | 1.77 | 1.24 | 1.30 | | | | 0.36 | 0.38 | 0.48 |
| 470 | | | | 1.96 | 1.53 | 1.48 | | | | 0.34 | 0.35 | 0.42 |
| 560 | | | | | 1.90 | 1.90 | | | | | 0.32 | 0.33 |
| 680 | | | | | | 2.45 | | | | | | 0.28 |
| 820 | | | | | | 2.55 | | | | | | 0.24 |
| 1000 | | | | | | 3.00 | | | | | | |
| 1200 | | | | | | 3.50 | | | | | | |