## OUTLINE:


Ultra low profile.

Magnetic shielded foe low raditation.

Bobbin ferrite core and compact size.

Low core loss for high frequency powerapplication.

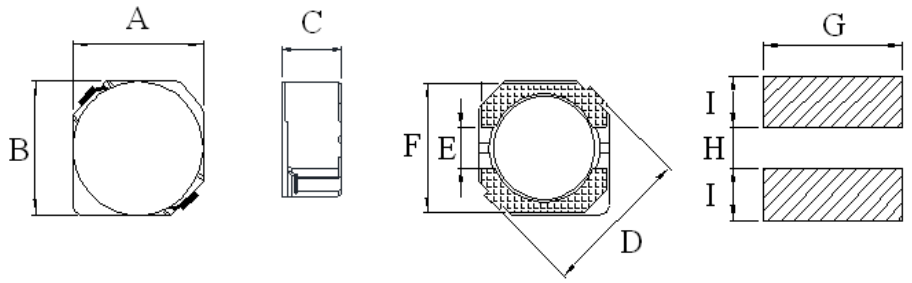
Large terminal surface for good PCB bonding.

## Product Identifications

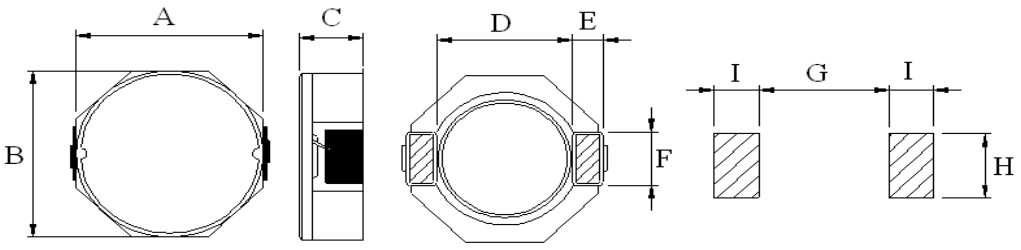
ETPRH 5D28 - 100 □

- □ Inductance tolerance K:±10% M:±20% N:±30%
- 100 Inductance value 10：10uH
- 5D28 Dimensions A*B*C
- ETPRH Series name

## Shapes and Dimensions

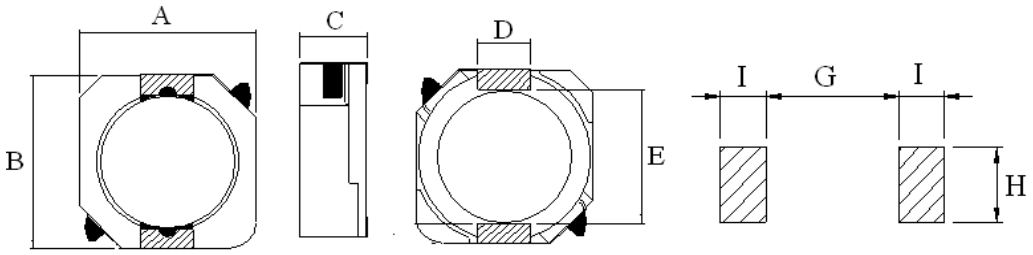



**ETPRH4D，5D，6D**




**ETPRH 8D**

## Shapes and Dimensions




**ETPRH 10D**

## Dimensions in mm

| TYPE | A(Max) | B(Max) | C(Max) | D | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|---|
| ETPRH3D16B | 4.0 | 4.0 | 1.8 | 4.0 | 1.0 | 4.0 | 4.0 | 1.0 | 1.5 |
| ETPRH4D28 | 5.0 | 5.0 | 3.0 | 6.9 | 1.5 | 5.0 | 5.3 | 1.5 | 1.5 |
| ETPRH5D28 | 6.1 | 6.1 | 3.0 | 8.2 | 2.0 | 6.1 | 6.3 | 2.0 | 2.15 |
| ETPRH6D28 | 7.0 | 7.0 | 3.0 | 9.5 | 2.0 | 7.0 | 7.3 | 2.0 | 2.65 |
| ETPRH6D38 | 7.0 | 7.0 | 4.0 | 9.5 | 2.0 | 7.0 | 7.3 | 2.0 | 2.65 |
| ETPRH8D28 | 8.3 | 8.3 | 3.1 | 8.3 | 2.5 | 6.1 | 10.1 | 2.8 | 2.0 |
| ETPRH8D43 | 8.3 | 8.3 | 4.5 | 5.9 | | 2.5 | 6.1 | 2.8 | 2.0 |
| ETPRH10D40 | 10.6 | 10.5 | 4.1 | | | | 7.3 | 3.6 | 1.7 |

## Electrical Characteristics

| Part Number | Inductance (μH) | Test Frequency | DC Resistance (mΩ) MAX. | Rated Current (A) MAX. |
|---|---|---|---|---|
| 4D28 系列 | | | | |
| ETPRH4D28-2R2□ | 2.2 | 1KHz/0.25v | 35 | 2.50 |
| ETPRH4D28-4R7□ | 4.7 | 1KHz/0.25v | 60 | 1.80 |
| ETPRH4D28-4R7□ | 10 | 1KHz/0.25v | 110 | 1.00 |
| ETPRH4D28-4R7□ | 100 | 1KHz/0.25v | 700 | 0.30 |
| ETPRH4D28-220□ | 22 | 1KHz/0.25v | 180 | 0.80 |
| ETPRH4D28-330□ | 33 | 1KHz/0.25v | 230 | 0.50 |
| ETPRH4D28-680□ | 68 | 1KHz/0.25v | 410 | 0.30 |
| 5D28 系列 | | | | |
| ETPRH5D28-3R3□ | 3.3 | 100KHz/0.25v | 0.030 | 2.10 |
| ETPRH5D28-4R7□ | 4.7 | 100KHz/0.25v | 0.035 | 2.00 |
| ETPRH5D28-5R6□ | 5.6 | 100KHz/0.25v | 0.040 | 1.90 |
| ETPRH5D28-8R2□ | 8.2 | 100KHz/0.25v | 0.053 | 1.60 |
| ETPRH5D28-100□ | 10 | 1KHz/0.25v | 0.065 | 1.30 |
| ETPRH5D28-120□ | 12 | 1KHz/0.25v | 0.076 | 1.20 |
| ETPRH5D28-150□ | 15 | 1KHz/0.25v | 0.103 | 1.10 |
| ETPRH5D28-180□ | 18 | 1KHz/0.25v | 0.110 | 1.00 |
| ETPRH5D28-220□ | 22 | 1KHz/0.25v | 0.122 | 0.90 |
| ETPRH5D28-270□ | 27 | 1KHz/0.25v | 0.175 | 0.85 |
| ETPRH5D28-330□ | 33 | 1KHz/0.25v | 0.189 | 0.75 |
| ETPRH5D28-390□ | 39 | 1KHz/0.25v | 0.212 | 0.70 |
| ETPRH5D28-470□ | 47 | 1KHz/0.25v | 0.250 | 0.62 |
| ETPRH5D28-560□ | 56 | 1KHz/0.25v | 0.305 | 0.58 |
| ETPRH5D28-680□ | 68 | 1KHz/0.25v | 0.355 | 0.52 |
| ETPRH5D28-820□ | 82 | 1KHz/0.25v | 0.463 | 0.46 |
| ETPRH5D28-101□ | 100 | 1KHz/0.25v | 0.52 | 0.42 |
| ETPRH5D28-121□ | 120 | 1KHz/0.25v | 0.560 | 0.40 |
| ETPRH5D28-151□ | 150 | 1KHz/0.25v | 0.680 | 0.35 |
| ETPRH5D28-181□ | 180 | 1KHz/0.25v | 0.930 | 0.32 |
| ETPRH5D28-221□ | 220 | 1KHz/0.25v | 1.150 | 0.30 |
| ETPRH5D28-271□ | 270 | 1KHz/0.25v | 1.560 | 0.27 |
| ETPRH5D28-331□ | 330 | 1KHz/0.25v | 1.980 | 0.25 |
| ETPRH5D28-391□ | 390 | 1KHz/0.25v | 2.500 | 0.22 |
| ETPRH5D28-471□ | 470 | 1KHz/0.25v | 2.700 | 0.20 |
| ETPRH5D28-561□ | 560 | 1KHz/0.25v | 3.120 | 0.18 |

NOTE：□Tolerance value：K=±10%，M=±20%，N=±30%

## Electrical Characteristics

| Part Number | Inductance (μH) | Test Frequency | DC Resistance (Ω) MAX. | Rated Current (A) MAX. |
|---|---|---|---|---|
| ETPRH5D28-681□ | 680 | 1KHz/0.25v | 4.150 | 0.16 |
| 6D28 系列 | | | | |
| ETPRH6D28-1R0□ | 1.0 | 100KHz/0.25v | 30 | 4.00 |
| ETPRH6D28-2R2□ | 2.2 | 100KHz/0.25v | 25 | 3.15 |
| ETPRH6D28-3R3□ | 3.3 | 100KHz/0.25v | 40 | 3.00 |
| ETPRH6D28-6R8□ | 6.8 | 100KHz/0.25v | 55 | 2.10 |
| ETPRH6D28-150□ | 15 | 100KHz/0.25v | 84 | 1.40 |
| 6D38 系列 | | | | |
| ETPRH6D38-3R3□ | 3.3 | 100KHz/0.25v | 35 | 3.60 |
| ETPRH6D38-100□ | 10 | 100KHz/0.25v | 38 | 2.00 |
| ETPRH6D38-330□ | 33 | 1KHz/0.25v | 150 | 1.10 |
| ETPRH6D38-470□ | 47 | 1KHz/0.25v | 163 | 0.85 |
| ETPRH6D38-560□ | 56 | 1KHz/0.25v | 220 | 1.00 |
| ETPRH6D38-681□ | 680 | 1KHz/0.25v | 320 | 0.25 |
| 8D28 系列 | | | | |
| ETPRH8D28-101□ | 100 | 1KHz/0.25v | 630 | 1.10 |
| ETPRH8D28-220□ | 22 | 1KHz/0.25v | 157 | 1.80 |
| ETPRH8D28-470□ | 47 | 1KHz/0.25v | 360 | 1.25 |
| ETPRH8D28-680□ | 68 | 1KHz/0.25v | 470 | 1.20 |
| 8D43 系列 | | | | |
| ETPRH8D43-100□ | 100 | 1KHz/0.25v | 46 | 3.60 |
| ETPRH8D43-101□ | 100 | 1KHz/0.25v | 360 | 0.90 |
| 10D40 系列 | | | | |
| ETPRH10D40-1R5□ | 1.5 | 100KHz/0.3v | 0.008 | 6.50 |
| ETPRH10D40 3R3□ | 3.3 | 100KHz/0.3v | 0.014 | 5.60 |
| ETPRH10D40-4R7□ | 4.7 | 100KHz/0.3v | 0.022 | 5.40 |
| ETPRH10D40-7R0□ | 7.0 | 100KHz/0.3v | 0.027 | 4.50 |
| ETPRH10D40-100□ | 10 | 1KHz/0.3v | 0.035 | 3.80 |
| ETPRH10D40-150□ | 15 | 1KHz/0.3v | 0.050 | 3.10 |
| ETPRH10D40-220□ | 22 | 1KHz/0.3v | 0.073 | 2.50 |
| ETPRH10D40-330□ | 33 | 1KHz/0.3v | 0.093 | 2.20 |
| ETPRH10D40-470□ | 47 | 1KHz/0.3v | 0.128 | 1.90 |
| ETPRH10D40-680□ | 68 | 1KHz/0.3v | 0.213 | 1.42 |
| ETPRH10D40-101□ | 100 | 1KHz/0.3v | 0.304 | 1.25 |

NOTE：□Tolerance value：K=±10%，M=±20%，N=±30%

## Electrical Characteristics

| Part Number | Inductance (μH) | Test Frequency | DC Resistance (mΩ) MAX. | Rated Current (A) MAX. |
|---|---|---|---|---|
| ETPRH10D40-151□ | 150 | 1KHz/0.3v | 0.506 | 0.85 |
| ETPRH10D40-221□ | 220 | 1KHz/0.3v | 0.756 | 0.70 |
| ETPRH10D40-331□ | 330 | 1KHz/0.3v | 1.090 | 0.52 |

NOTE：□Tolerance value：K=±10%，M=±20%，N=±30%