Type: CDEP104, CDEP104B

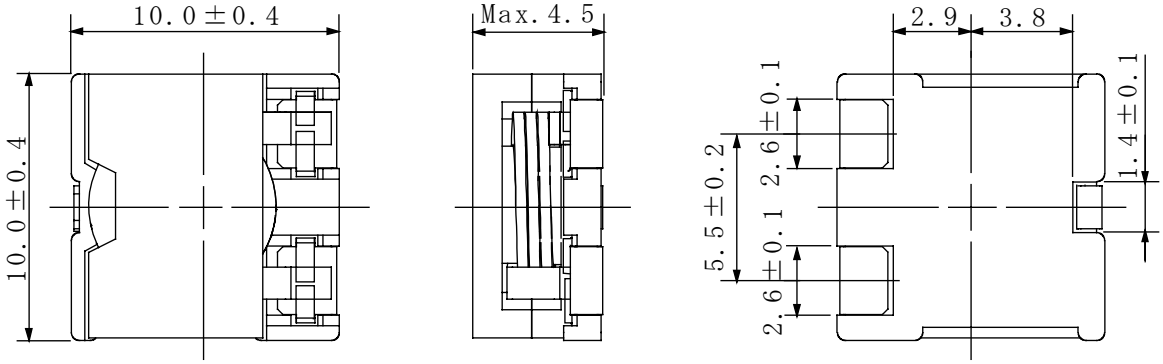
◆ Product Description

- 10.4×10.4mm Max.(L×W),4.5mm Max. Height.
- Both standard type and Low DCR type of CDEP104 are available.
- Inductance range: 0.22～0.25μH(CDEP104 Standard type);
  0.36～0.43μH(CDEP104 Low D.C.R type); 0.4μH(CDEP104B).
- Saturation Current range: 11.8～39.6A(CDEP104 Standard type) ;
  7.0～24.2A(CDEP104 Low D.C.R type); 28.0A (CDEP104B).
- Temperature rise current 5.0～18.0A(CDEP104),16.0A(CDEP104B)
- In addition to the standards versions shown here, custom inductors are also available to meet your exact requirements.

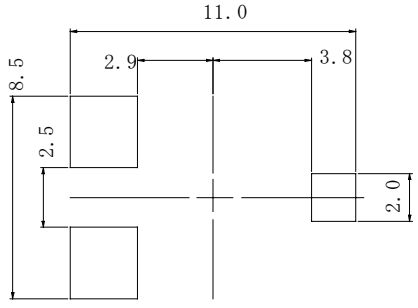
◆ Feature

- Super high current inductors.
- Mn-Zn core used, Flat wire used.
- Ideally used in portable computer CPU power supply.
- RoHS Compliance

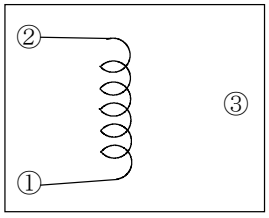
◆ Dimensions (mm)



◆ Land Pattern (mm)



◆ Schematics (Bottom)



Type: CDEP104, CDEP104B

◆ Specification(CDEP104)

1.Low D.C.R. type

Part Name ※	Stamp	Inductance [Within] 100kHz/1V	D.C.R. (mΩ) Max.(Typ.) (at 20℃)	Saturation Current (A) ※1		Temperature rise current (A) ※2
				(at 20℃)	(at100℃)	
CDEP1Ø4NP-ØR3N□-88	0R3NL	0.36μH±30%	2.2(1.8)	24.2	20.8	18.0
CDEP1Ø4NP-ØR8M□-88	0R8ML	0.8μH±20%	3.7(3.1)	16.2	14.0	13.4
CDEP1Ø4NP-1R4M□-88	1R4ML	1.4μH±20%	5.9(4.9)	12.2	10.5	10.2
CDEP1Ø4NP-2R2M□-88	2R2ML	2.2μH±20%	11.8(9.8)	9.8	8.6	7.3
CDEP1Ø4NP-3R2M□-88	3R2ML	3.2μH±20%	18.6(15.5)	8.1	7.0	5.4
CDEP1Ø4NP-4R3M□-88	4R3ML	4.3μH±20%	21.8(18.2)	7.0	6.0	5.0

2.Standard type

Part Name ※	Stamp	Inductance [Within] 100kHz/1V	D.C.R. (mΩ) Max.(Typ.) (at 20℃)	Saturation Current (A) ※1		Temperature Rise current (A) ※2
				(at 20℃)	(at100℃)	
CDEP1Ø4NP-ØR2N□-5Ø	0R2NS	0.22μH±30%	2.2(1.8)	39.6	31.6	18.0
CDEP1Ø4NP-ØR4M□-5Ø	0R4MS	0.45μH±20%	3.7(3.1)	27.6	22.1	13.4
CDEP1Ø4NP-ØR8M□-5Ø	0R8MS	0.8μH±20%	5.9(4.9)	20.7	16.6	10.2
CDEP1Ø4NP-1R3M□-5Ø	1R3MS	1.3μH±20%	11.8(9.8)	16.6	13.3	7.3
CDEP1Ø4NP-1R8M□-5Ø	1R8MS	1.8μH±20%	18.6(15.5)	13.3	10.7	5.4
CDEP1Ø4NP-2R5M□-5Ø	2R5MS	2.5μH±20%	21.8(18.2)	11.8	9.5	5.0

※ Description of part name

CDEP1Ø4NP-ØR2N□-5Ø

- B Box
- C Carrier Tape

※1 Saturation current: The DC current at which the inductance decreases to 65% (for the inductance tolerance :±30%) or 75% (for the inductance tolerance:±20%) of it's nominal.
※2 Temperature rise current:The DC current at which the temperature rise is △t=40℃. (Ta=20℃)

Type: CDEP104, CDEP104B

◆ Specification(CDEP104B)

Part Name ※ : CDEP1Ø4BNP- ØR4M□

	Between（1－2）	Measuring conditions
Inductance	４００ｎＨ±２０％　Within	１００ｋＨｚ
D.C.R.	ＭＡＸ.２.９ｍΩ(ＴＹＰ.２.４ｍΩ)	ａｔ　２０℃
Saturation Current　※1	ＭＡＸ.２８.０Ａ	ａｔ　２０℃
	ＭＡＸ.２４.０Ａ	ａｔ　１００℃
Temperature rise current ※2	ＲＥＦ.１６.０Ａ	

※ Description of part name

ＣＤＥＰ１Ø４ＢＮＰ－ØＲ４Ｍ□

- Ｂ　Box
- Ｃ　Carrier Tape

※1.Saturation Current: The DC current at which the inductance decreases to 75% of it's nominal value

※2 Temperature rise current:The DC current at which the temperature rise is △t＝40℃.(Ta＝20℃)