

Power Inductor C2DEP1010



 **sumida**



■ Features

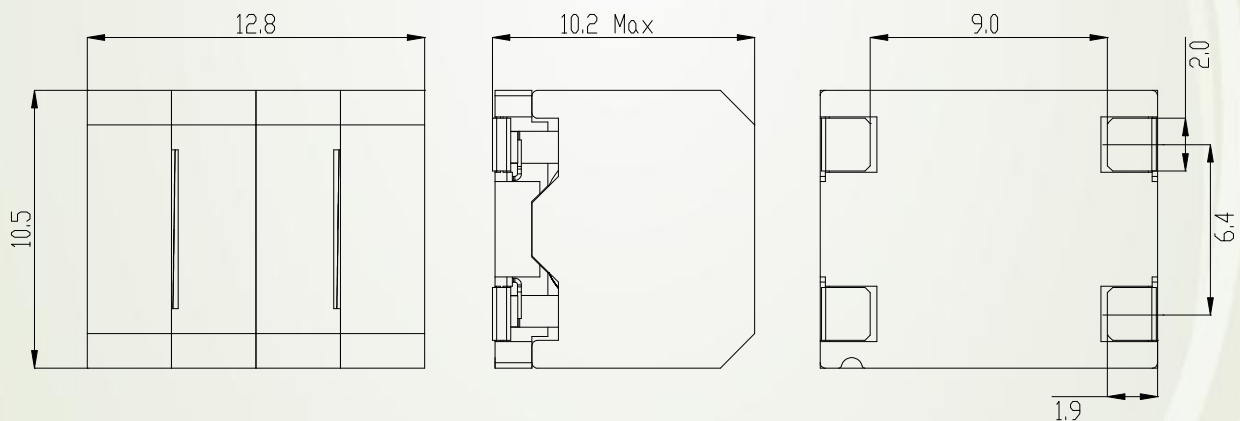
- ◎ Magnetically shielded construction.
- ◎ Storage temperature range: $-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$.
- ◎ Operating temperature range: $-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$ (including coil's self temperature rise).
- ◎ RoHS Compliance and Halogen Free.

■ Applications

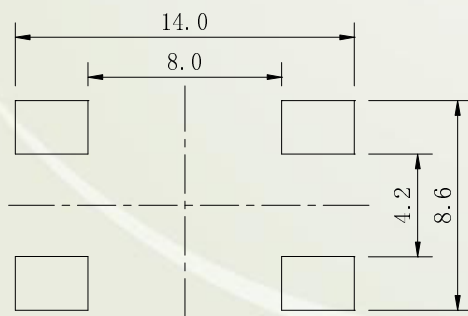
Ideally used in D Class Amplifiers.

■ Dimensions/Recommended Land Patterns (mm)

◆ Dimensions



◆ Land pattern



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■Electrical Characteristics specification.

No.	Part Name	Stamp	Inductance (μ H) (1-2);(4-3) ※1	D.C.R. (m Ω) [MAX.] (at 20°C) (1-2);(4-3) ※2	Saturation current (A) (at 20°C) ※3 ※5	Temperature rise current (A) ※4 ※6
01	C2DEP1010NP-100MC-120	100	10 μ H $\pm$ 20%	14.0 (11.0)	6.2(7.3)	6.6(7.6)
02	C2DEP1010NP-120MC-120	120	12 μ H $\pm$ 20%	18.0 (15.0)	6.0(7.0)	5.7(6.5)
03	C2DEP1010NP-150MC-120	150	15 μ H $\pm$ 20%	20.0 (16.0)	5.4(6.1)	5.4(6.2)
04	C2DEP1010NP-180MC-120	180	18 μ H $\pm$ 20%	25.0 (21.0)	4.8(5.8)	5.0(5.6)
05	C2DEP1010NP-220MC-120	220	22 μ H $\pm$ 20%	27.0 (22.0)	4.3(5.1)	4.9(5.5)

※1 Measuring frequency inductance at 100kHz .

※2、5、6 ()Typical value.

※3 Saturation current: The DC current at which the inductance decreases to 75% of its nominal value.

※4 Temperature rise current: The DC current at which the temperature rise is $\Delta t=40^{\circ}\text{C}$.(Ta=20°C)

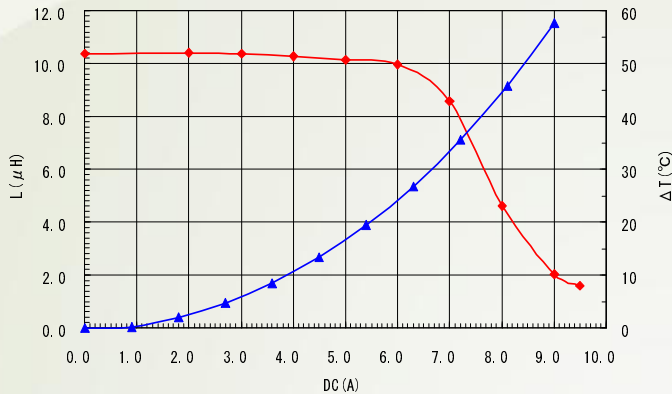
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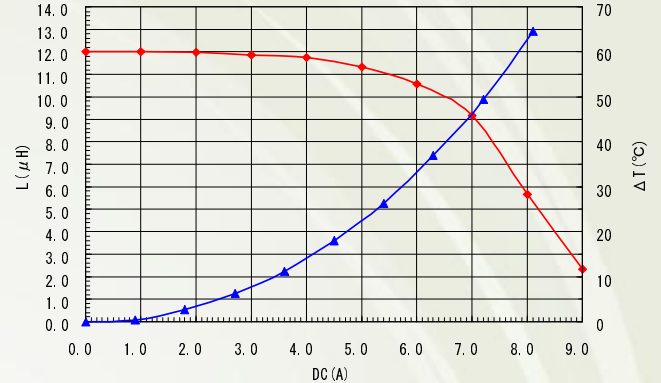
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Rated Current Curve

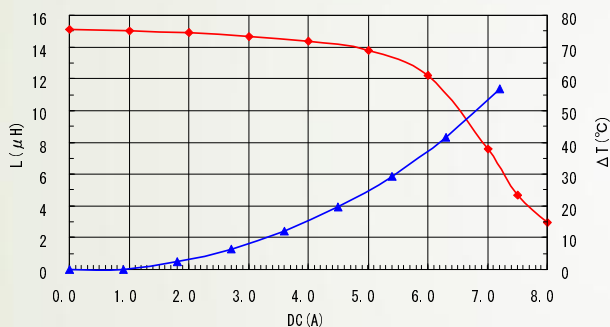
Design Sample (C2DEP1010NP-100MC-120)
Saturation Current & Temperature Rise Current Graph



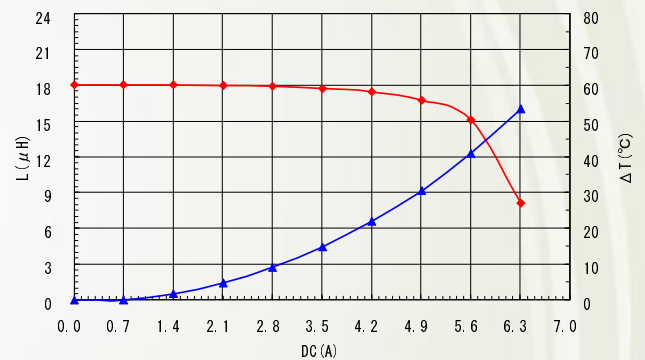
Design Sample (C2DEP1010NP-120MC-120)
Saturation Current & Temperature Rise Current Graph



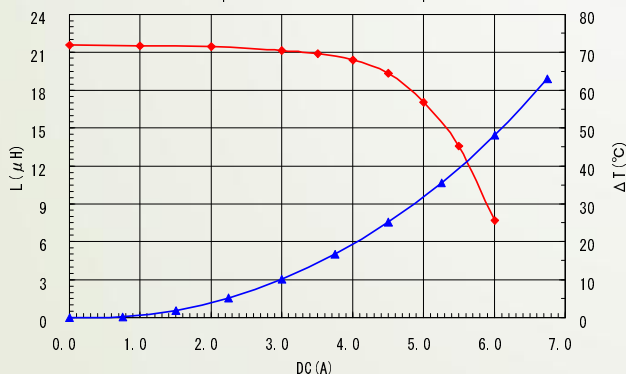
Design Sample (C2DEP1010NP-150MC-120)
Saturation Current & Temperature Rise Current Graph



Design Sample (C2DEP1010NP-180MC-120)
Saturation Current & Temperature Rise Current Graph



Design Sample (C2DEP1010NP-220MC-120)
Saturation Current & Temperature Rise Current Graph



For More Information

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