

SMD Power Inductor

CDEPI99



Description

- Ferrite core construction
- Magnetically shielded
- LxWxH: 10.5x9.5x10.0 mm Max.
- Product weight: 3.3g(Ref.)
- Moisture Sensitivity Level: 1



Environmental Data

- Operating Temperature: -40°C to +125°C (including self-heating)
- Storage temperature range: -40°C~+105°C

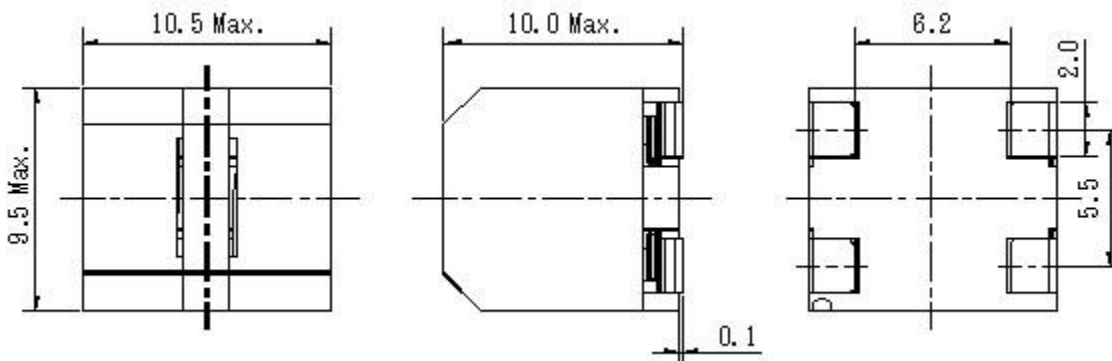
Packaging

- Carrier tape and reel packaging

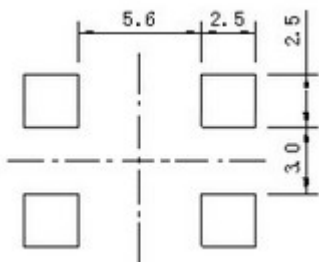
Applications

- 2 in 1 LPF coil for class-D amplifiers

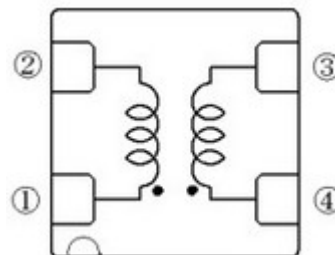
Dimension - [mm]



Recommended Land pattern - [mm]



Wire Connection





Electrical Characteristics

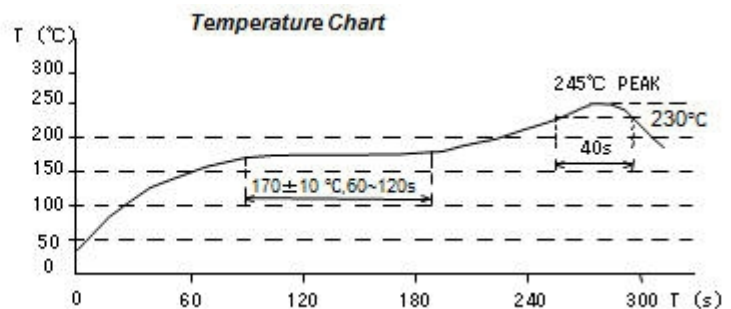
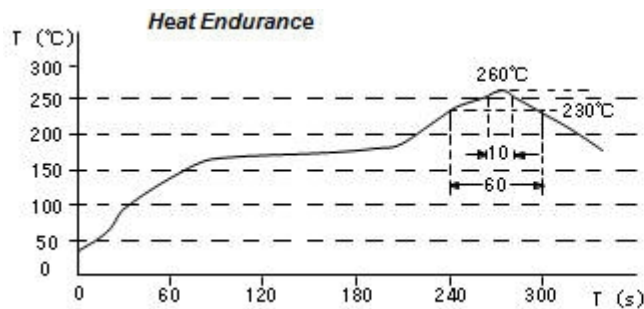
Part Number	Inductance [Within] (μ H) ※1	D.C.R. at 20°C Max.(Typ.) (m Ω)	Saturation Current (A) Max.(Typ.) ※2	Temperature Rise Current (A) Max.(Typ.) ※3
CDEPI99NP-5R0PC	5.00 \pm 20%	13.00 (10.00)	7.16 (8.95)	(8.10)
CDEPI99NP-100MC	10.00 \pm 20%	26.00 (21.00)	5.24 (6.55)	(4.80)
CDEPI99NP-120MC	12.00 \pm 20%	29.00 (23.00)	4.68 (5.85)	(4.70)
CDEPI99NP-150MC	15.00 \pm 20%	29.00 (23.00)	3.92 (4.90)	(4.70)
CDEPI99NP-180MC	18.00 \pm 20%	29.00 (23.00)	3.31 (4.14)	(4.70)
CDEPI99NP-220MC	22.00 \pm 20%	29.00 (23.00)	2.82 (3.52)	(4.70)

※1. Inductance measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 75% of it's nominal value.

※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

Solder Reflow Condition



SMD Power Inductor

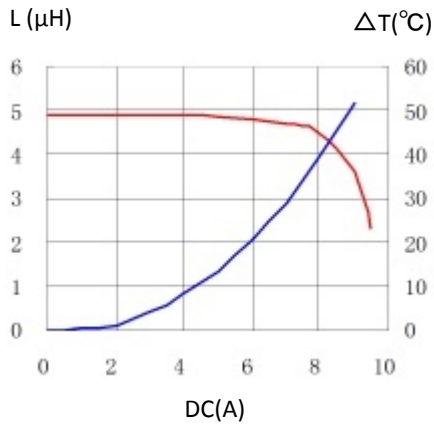
CDEPI99



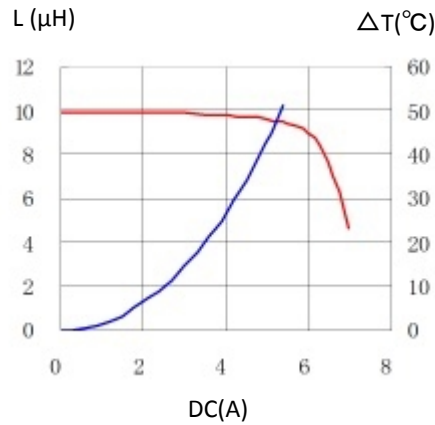
Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

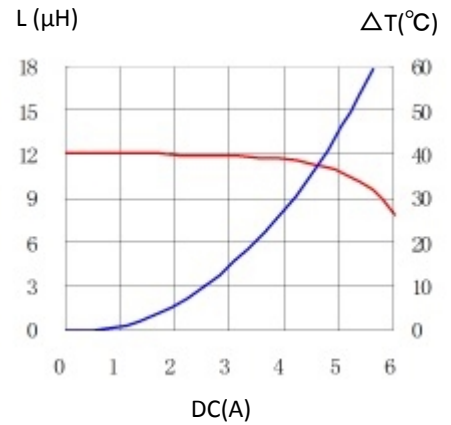
1. CDEPI99NP-5R0PC



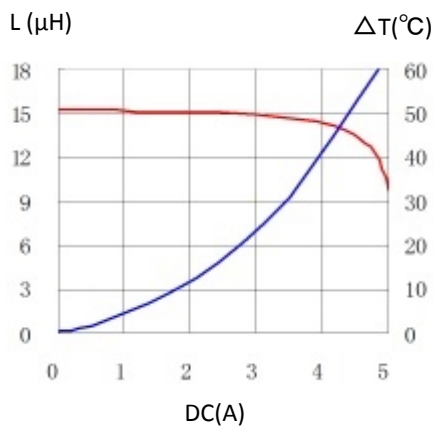
2. CDEPI99NP-100MC



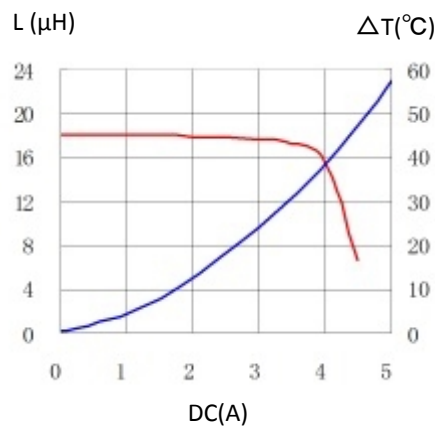
3. CDEPI99NP-120MC



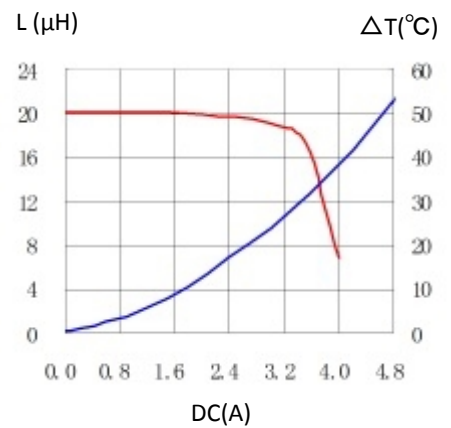
4. CDEPI99NP-150MC



5. CDEPI99NP-180MC



6. CDEPI99NP-220MC



For sales office information, please [click here](#) to visit our website.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Fixed Inductors](#) category:

Click to view products by [Sumida](#) manufacturer:

Other Similar products are found below :

[CR32NP-100KC](#) [70F224AI](#) [MHQ1005P10NJ](#) [MHQ1005P1N0S](#) [MHQ1005P2N4S](#) [MHQ1005P3N6S](#) [MHQ1005P5N1S](#) [MHQ1005P8N2J](#)
[PE-53601NL](#) [PE-53602NL](#) [PG0936.113NLT](#) [9220-20](#) [9310-16](#) [PM06-2N7](#) [PM06-39NJ](#) [A01TK](#) [1206CS-471XJ](#) [HC2-R47-R](#) [HC8-1R2-R](#)
[HCF1305-3R3-R](#) [1206CS-151XG](#) [RCH664NP-4R7M](#) [RCP1317NP-391L](#) [DH2280-4R7M](#) [DS1608C-106](#) [B10TJ](#) [B82498B3101J000](#) [ELJ-](#)
[RE27NJF2](#) [1812CS-153XJ](#) [1812CS-183XJ](#) [1812CS-223XJ](#) [1812LS-104XJ](#) [1812LS-105XJ](#) [1812LS-124XJ](#) [1812LS-154XJ](#) [1812LS-223XJ](#)
[1812LS-224XJ](#) [1812LS-563XJ](#) [1812LS-683XJ](#) [1812LS-824XJ](#) [NIN-FB101JTR110F](#) [NIN-FB471JTR62F](#) [NIN-FC1R5JTR220F](#) [NIN-](#)
[HCR15JTRF](#) [NIN-HCR33JTRF](#) [NIN-HDR22JTRF](#) [NIN-HDR82JTRF](#) [NIN-HK2N7STRF](#) [NIN-PA150KTR370F](#) [NIN-PB100KTR550F](#)