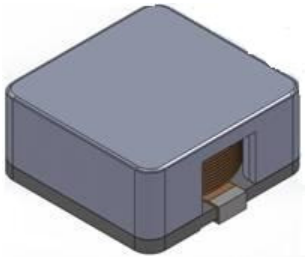
SMD Power Inductor
CDEIR10D50ME

Description

- Metal alloy core construction
- Magnetically shielded
- L×W×H: 11.5×10.7×5.2mm Max.
- Product weight : 2.7 g (Ref.)
- Moisture Sensitivity Level: 1



Applications

- Ideally used in Notebook, PDA and other high current application

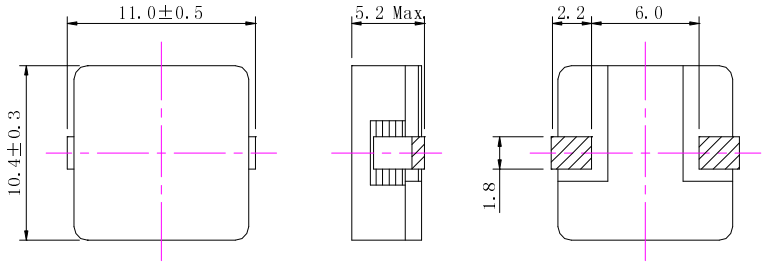
Environmental Data

- Operating temperature range: -40℃～+125℃ (including coil's self temperature rise)
- Storage temperature range: -40℃～+125℃

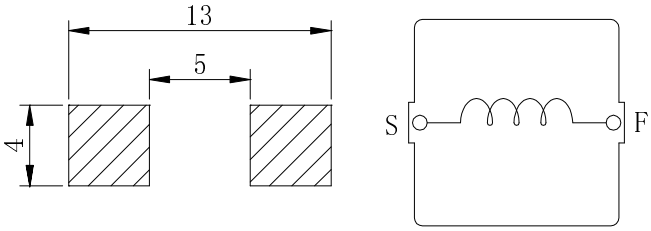
Packaging

- Carrier tape and reel packaging.
- 13.0"diameter reel
- 500pcs per reel

Dimension - [mm]



Land pattern and Schematics - [mm]



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SMD Power Inductor
CDEIR10D50ME

Electrical Characteristics

Part No.	Stamp	Inductance (μH) [Within]※1	D.C.R.(mΩ) [Max.] (Typ.) (at 20℃)	Saturation Current (A) Typ. (at 20℃) ※2	Temperature Rise Current (A) Typ. ※3
CDEIR10D50MENP-R22MC	R22	0.22±20%	1.2 (1.0)	70.0	22.0
CDEIR10D50MENP-R47MC	R47	0.47±20%	1.9 (1.6)	60.0	20.0
CDEIR10D50MENP-1R0MC	1R0	1.00±20%	3.0 (2.5)	34.0	17.0
CDEIR10D50MENP-2R2MC	2R2	2.20±20%	6.2 (5.0)	26.0	12.5
CDEIR10D50MENP-3R3MC	3R3	3.30±20%	10.2 (8.5)	20.0	8.2
CDEIR10D50MENP-4R7MC	4R7	4.70±20%	12.0 (10.0)	18.0	7.8
CDEIR10D50MENP-6R8MC	6R8	6.80±20%	19.2 (16.0)	14.0	5.8
CDEIR10D50MENP-100MC	100	10.0±20%	25.2 (21.0)	12.0	5.0

※1 Measuring conditions Inductance at 100kHz 1V.

※2 Saturation current: the actual value of D.C. current when inductance is above 80% of its nominal value.

※3 Temperature rise current: the actual value of D.C. current when temperature of coil increased △T=40℃ (Ta＝20℃)

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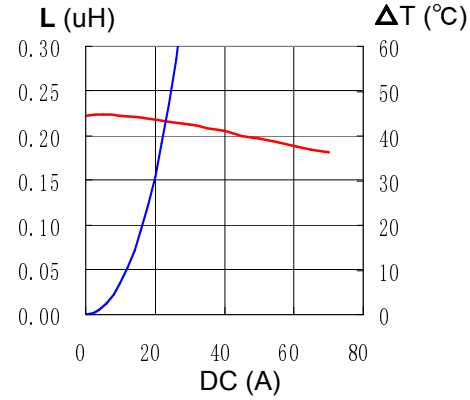
SMD Power Inductor

CDEIR10D50ME

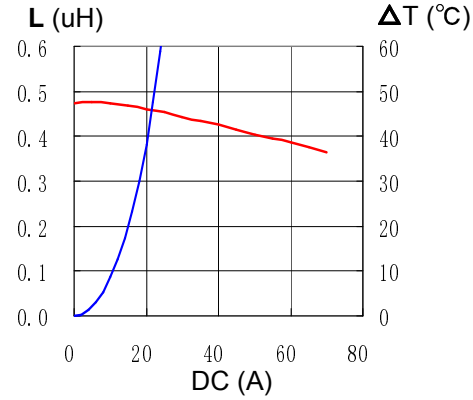
Saturation Current & Temperature Rise Graph

L (20℃) △T

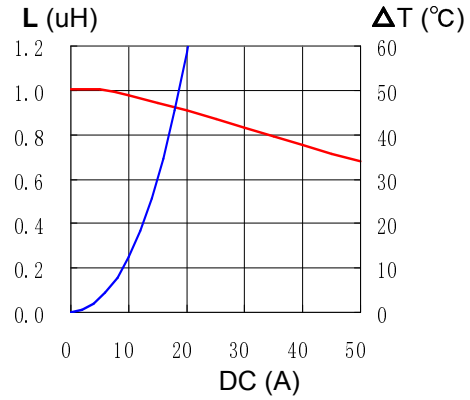
1. CDEIR10D50MENP-R22MC



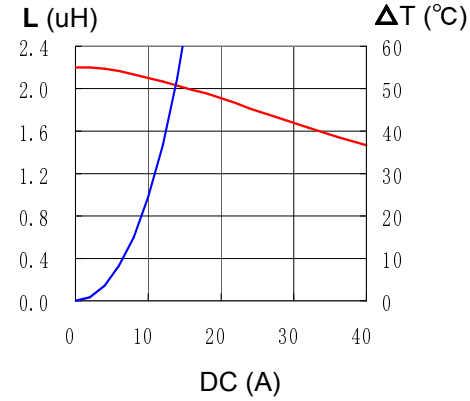
2. CDEIR10D50MENP-R47MC



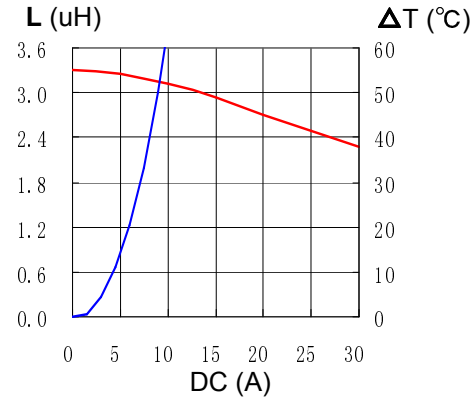
3. CDEIR10D50MENP-1R0MC



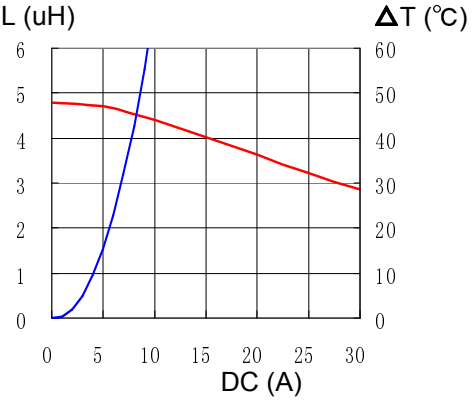
4. CDEIR10D50MENP-2R2MC



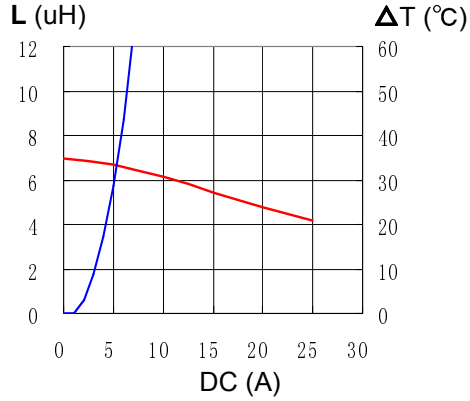
5. CDEIR10D50MENP-3R3MC



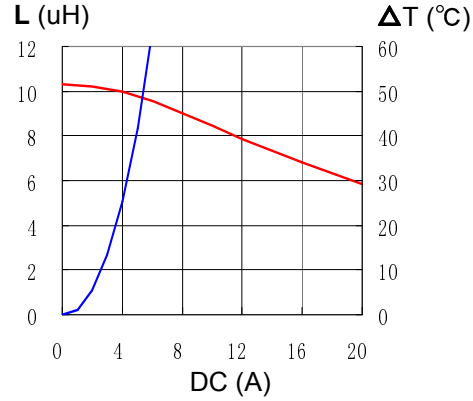
6. CDEIR10D50MENP-4R7MC



7. CDEIR10D50MENP-6R8MC



8. CDEIR10D50MENP-100MC



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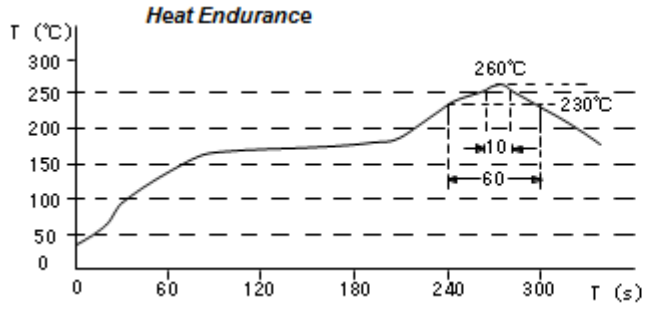
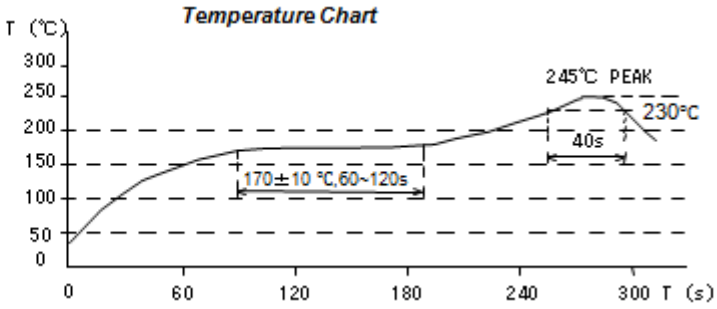
SMD Power Inductor
CDEIR10D50ME

Solder Reflow Condition





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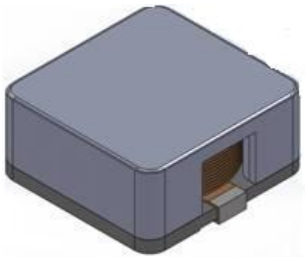
SMD Power Inductor
CDEIR10D50ME

Description



- メタルアロイ(鉄系)コア
- 閉磁構造
- L×W×H: 11.5×10.7×5.2mm Max.
- 製品重量 : 2.7 g (Ref.)
- 湿度感度レベル: 1

Applications

- ノート PC, PDA, 他大電流品

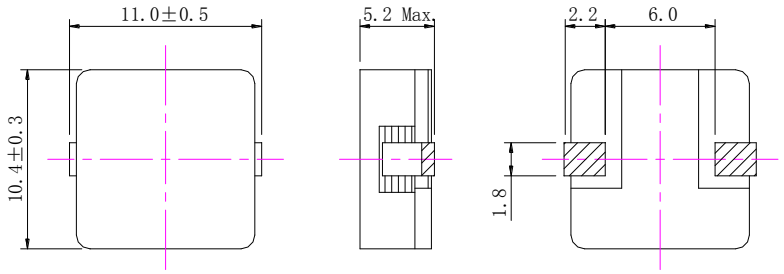
Environmental Data

- 動作温度範囲: -40℃～+125℃ (コイル自己発熱を含む)
- 保存温度範囲: -40℃～+125℃

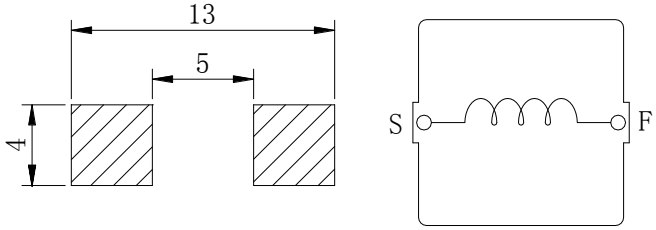
Packaging

- キャリアテープ、リール梱包
- リール直径 13.0”
- 1 リール 500 個

外形寸法図 - [mm]



推奨ランド図・　結線図- [mm]



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SMD Power Inductor

CDEIR10D50ME

電気的特性

Part No.	Stamp	Inductance (μH) [Within］※1	D.C.R.(mΩ) [Max.] (Typ.) (at 20℃)	Saturation Current (A) Typ. (at 20℃) ※2	Temperature Rise Current (A) Typ. ※3
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CDEIR10D50MENP-100MC	100	10.0±20%	25.2 (21.0)	12.0	5.0

※1　インダクタンス測定周波：at 100kHz 1V.
※2 . 直流重畳許容電流: 直流電流を流した時、インダクタンスの公称値が 80% 以上となる電流値とする
※3　温度上昇許容電流: 直流電流を流した時、コイルの温度上昇が△T＝40℃となる電流値。(Ta＝20℃)

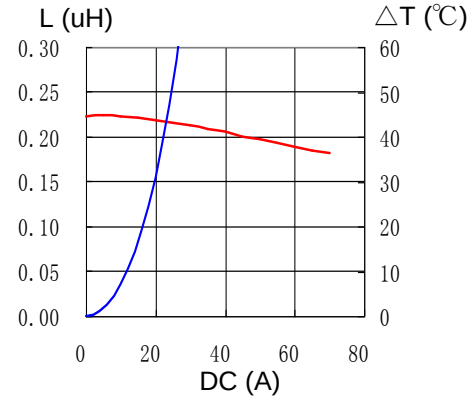
SMD Power Inductor

CDEIR10D50ME

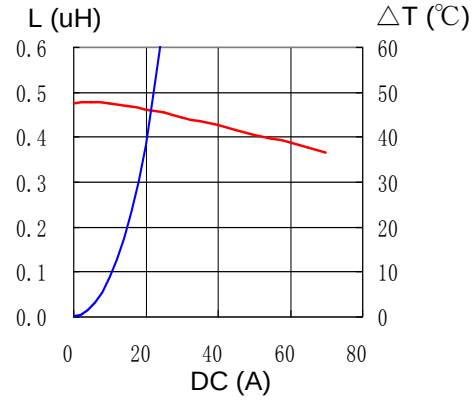
Saturation Current & Temperature Rise Graph

L (20℃) △T

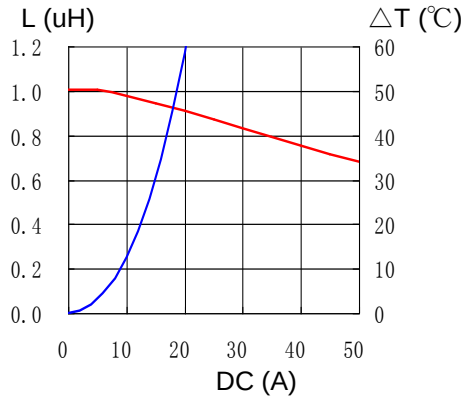
1. CDEIR10D50MENP-R22MC



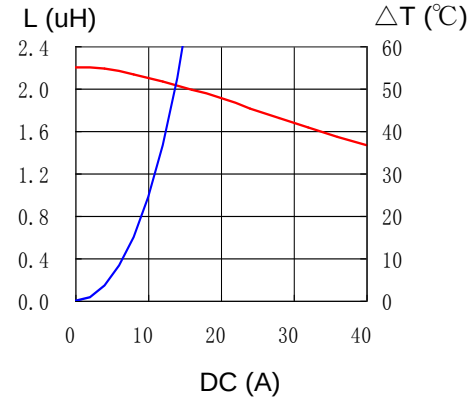
2. CDEIR10D50MENP-R47MC



3. CDEIR10D50MENP-1R0MC



4. CDEIR10D50MENP-2R2MC



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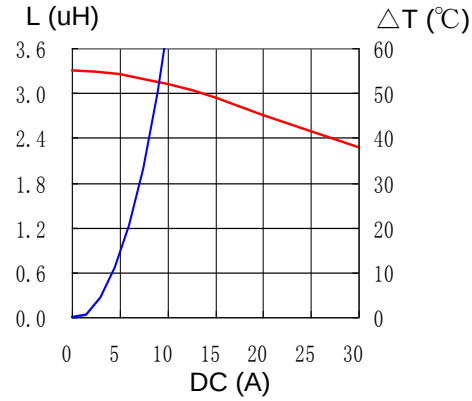

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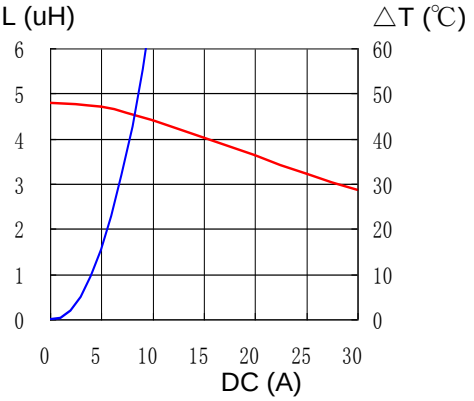

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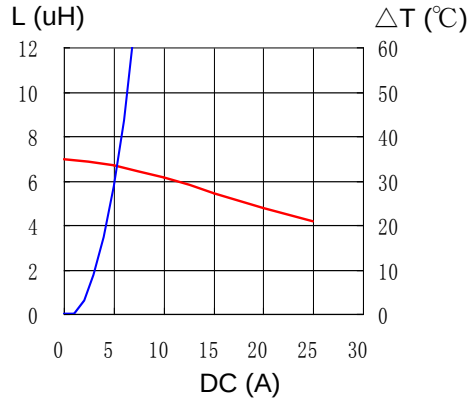

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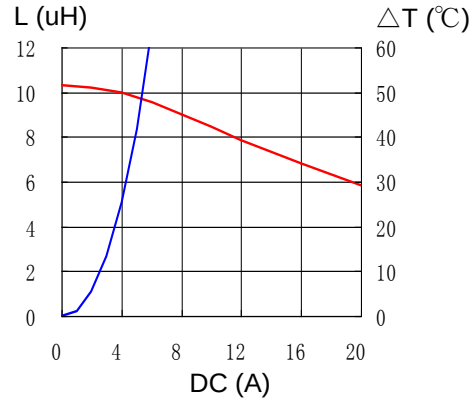

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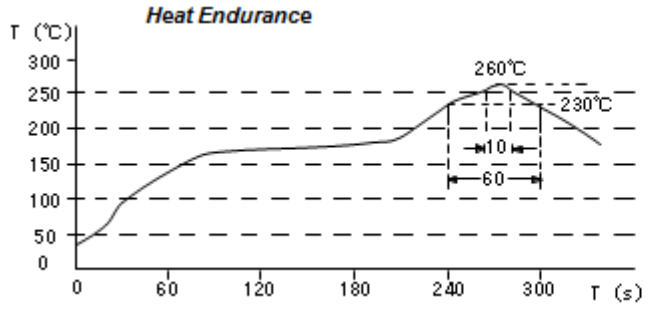
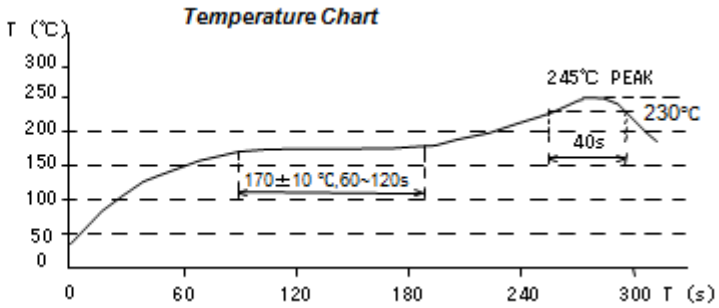
Solder Reflow Condition





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