

SMD Power Inductor CDEPI7D10



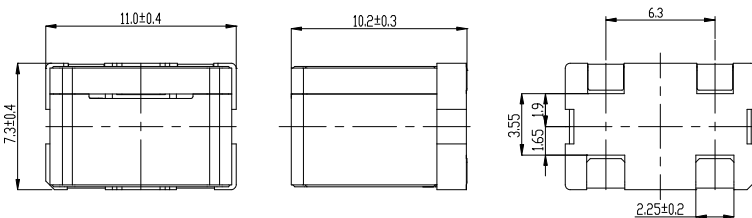
Halogen Free



Description

- Ferrite core construction.
- Magnetically shielded.
- L × W × H: 11.4 × 7.7 × 10.5 mm Max.
- Product weight: 2.6 g (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

Dimension - [mm]



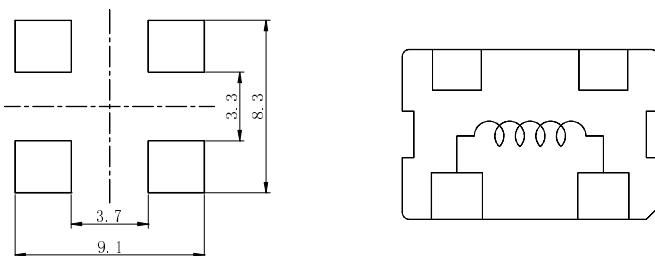
Environmental Data

- Operating temperature range: -40°C~+105°C (including coil's self temperature rise)
- Storage temperature range: -40°C~+105°C
- Solder reflow temperature: 260 °C peak.

Packaging

- Carrier tape and reel packaging
- 13.0" diameter reel
- 250pcs per reel

Land pattern and Schematics - [mm]



Applications

- Ideally used in D Class Amplifiers.

Electrical Characteristics

Part No.	Stamp	Inductance [Within] (μ H) ※1	D.C.R. (m Ω) [Max.] (Typ.) (at 20°C)	The saturation current (A) ※2		Temperature rise current (A) ※3
				(at 20°C)	(at 105°C)	
CDEPI7D10NP-100MC-70	100	10 ± 25%	24.5(19.6)	7.0	5.4	4.3
CDEPI7D10NP-150MC-70	150	15 ± 20%	30.8(24.6)	5.7	4.4	4.0
CDEPI7D10NP-180MC-98	180	18 ± 20%	26.4(22.0)	4.5	3.4	4.2
CDEPI7D10NP-220MC-98	220	22 ± 20%	30.8(24.6)	3.8	3.0	4.0

※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.

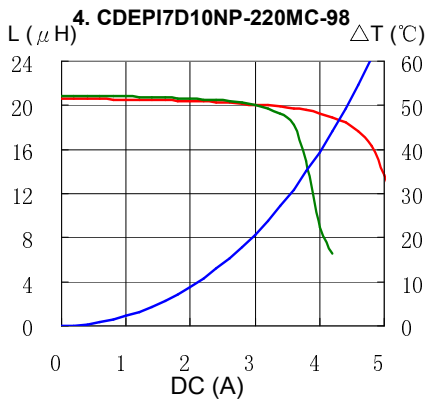
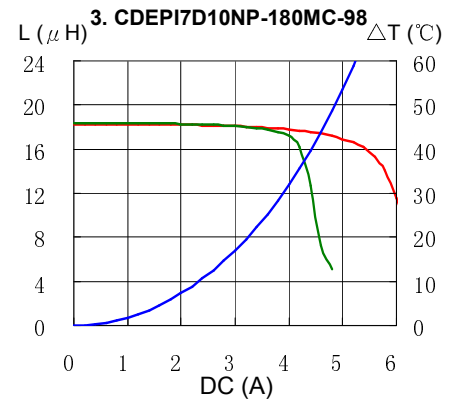
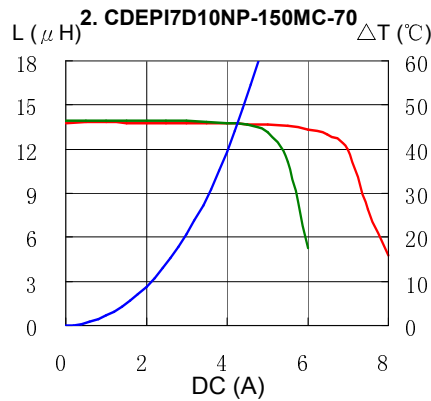
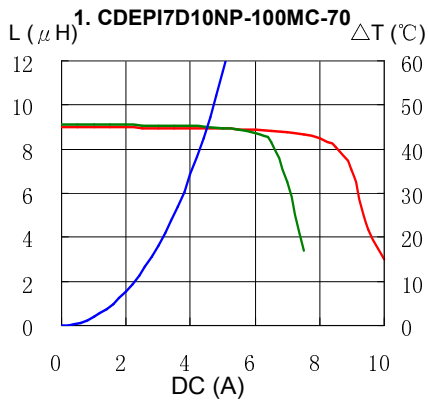
※3. Temperature current: The value of D.C. current when the temperature rise is $\Delta t = 40^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

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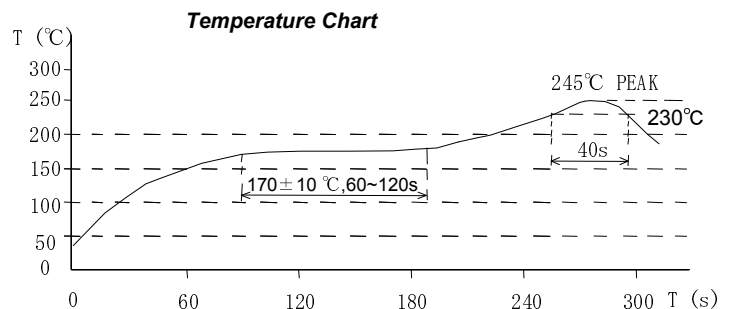
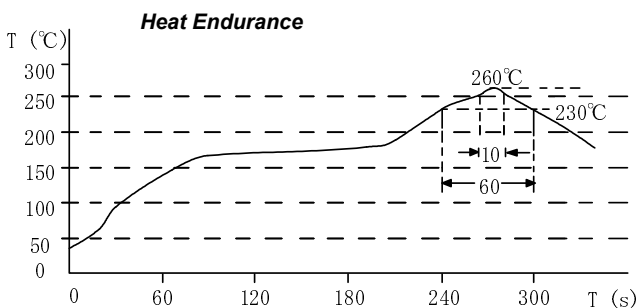


Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT



Solder Reflow Condition



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