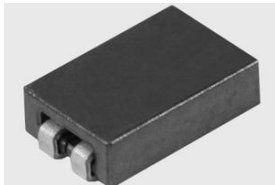


SMD Power Inductor

CDBH38D18



Description

- Ferrite core construction.
- Magnetically shielded.
- L × W × H: 6.5 × 4.0 × 2.0 mm Max.
- Product weight:0.3 g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data

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

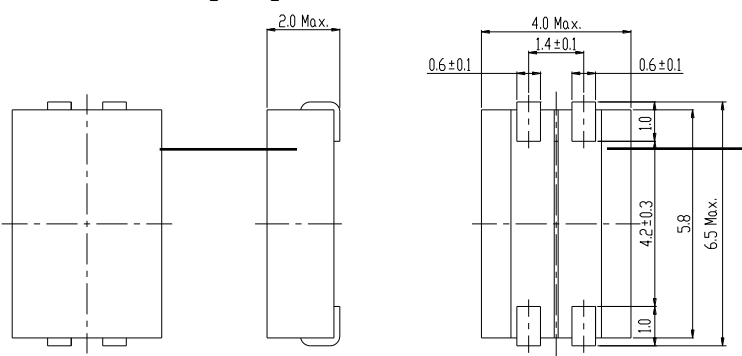
Packaging

- Carrier tape and reel packaging.
- 11.8" diameter reel
- 2000pcs per reel

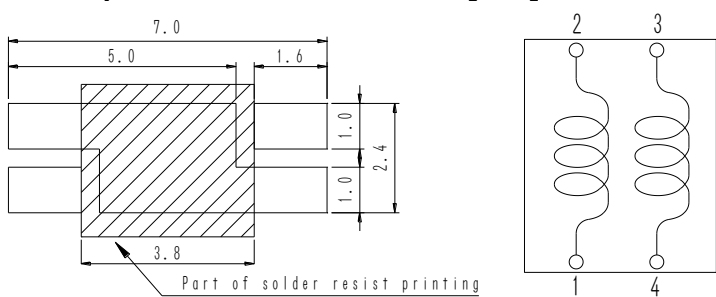
Applications

- Ideally used in PC & server multiple chopper DC-DC converters.

Dimension - [mm]



Land pattern and Schematics - [mm]



Electrical Characteristics

Item	Specifications	Measuring conditions
Inductance (1-2),(3-4)	8 0 n H (Typ.)	1MH z
Inductance (1-3)	2 4 0 n H ± 2 0 %	1MH z (Terminal 2,4 short)
D.C.R. (1-2),(3-4)	1 . 2 5 m Ω Max.(1 . 0 m Ω Typ.)	a t 2 0 ℃
Saturation current (1-3)※1	1 0 . 0 A	at 20℃(Terminal 2,4 short)
	8 . 5 A	at 105℃(Terminal 2,4 short)
Temperature rise current(1-3)※2	1 1 . 0 A	(Terminal 2,4 short)

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

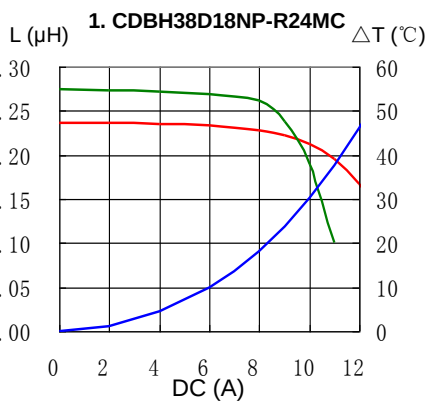
※2. Temperature rise current: The value of D.C. current when the temperature rise is Δt=40℃(Ta=20℃).

SMD Power Inductor CDBH38D18



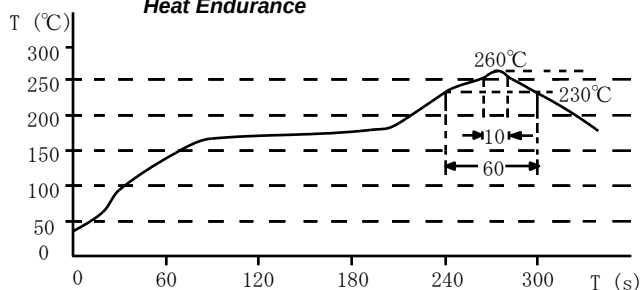
Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

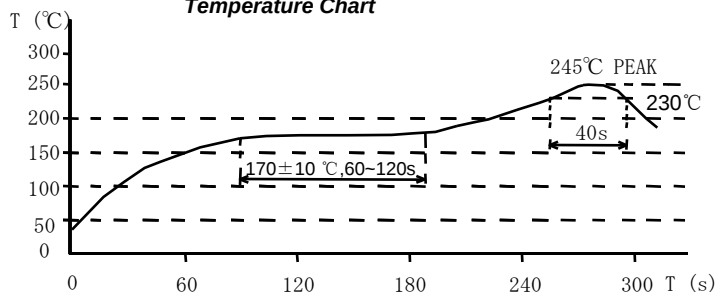


Solder Reflow Condition

Heat Endurance



Temperature Chart



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