

SMD Power Inductor CDRH50D28R



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 5.3 × 5.3 × 3.0mm Max.
- Product weight: 0.25g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

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.

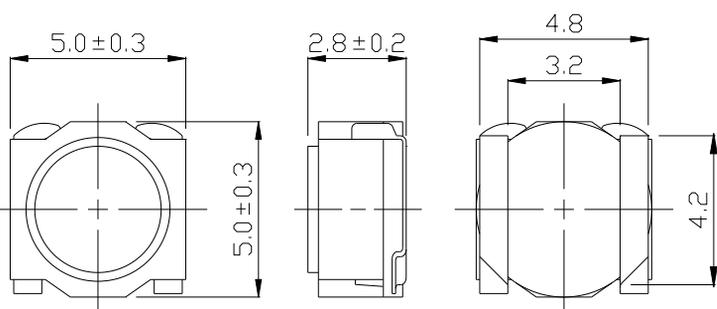
Packaging

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

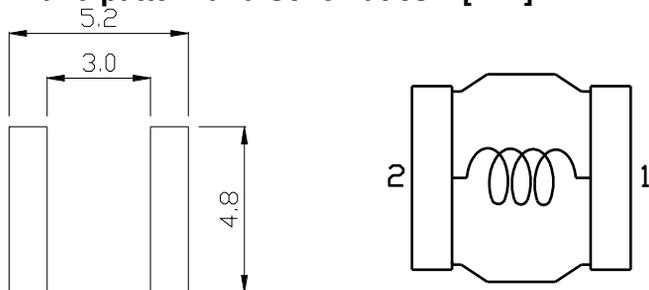
Applications

- Ideally used in Mobilephone, PDA, MP3, DSC/ DVC, HDD, etc as DC-DC converter inductors.

Dimension - [mm]



Land pattern and Schematics - [mm]



Electrical Characteristics

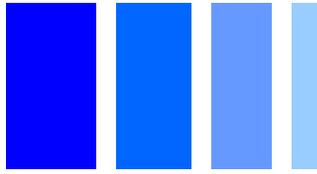
Part No.	Stamp	Inductance (μH) [Within] ※1	D.C.R. (mΩ) [Within] (at 20°C)	Saturation current (A) ※2		Temperature rise current (A) ※3
				(at 20°C)	(at 105°C)	
CDRH50D28RNP-1R2NC	A	1.2±30%	13±25%	4.80	4.10	5.40
CDRH50D28RNP-1R6NC	B	1.6±30%	15±25%	4.20	3.60	4.70
CDRH50D28RNP-2R2NC	C	2.2±30%	17±25%	3.65	3.05	4.30
CDRH50D28RNP-3R0MC	D	3.0±20%	25±25%	3.10	2.55	3.50
CDRH50D28RNP-4R7MC	E	4.7±20%	40±25%	2.50	2.15	2.70
CDRH50D28RNP-6R8MC	F	6.8±20%	61±25%	2.10	1.75	2.20
CDRH50D28RNP-100MC	G	10±20%	87±25%	1.70	1.40	1.75
CDRH50D28RNP-150MC	H	15±20%	140±20%	1.40	1.10	1.30
CDRH50D28RNP-220MC	J	22±20%	175±20%	1.15	0.98	1.16
CDRH50D28RNP-330MC	K	33±20%	248±20%	0.94	0.78	0.98
CDRH50D28RNP-470MC	L	47±20%	370±20%	0.78	0.65	0.78

※1. Inductance measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 70% of its nominal value.

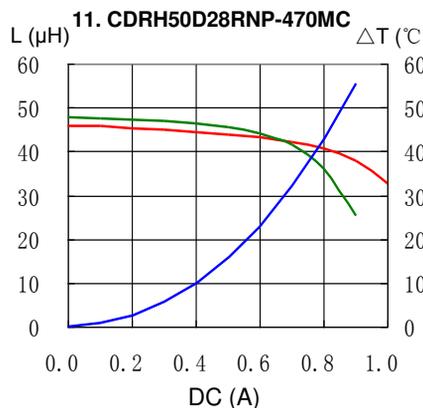
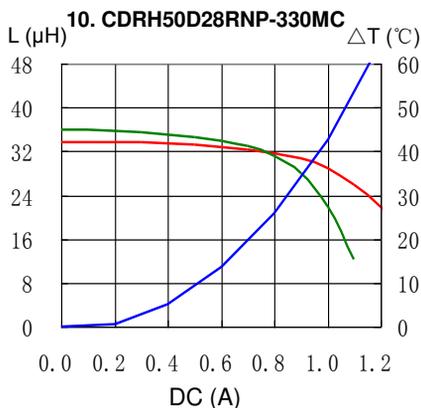
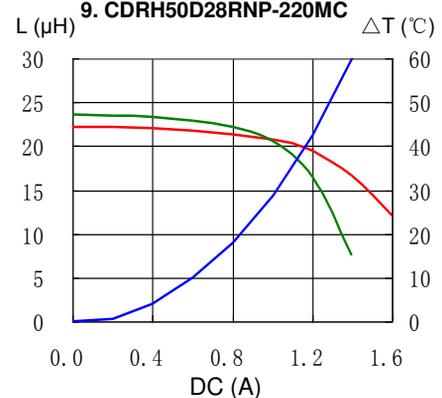
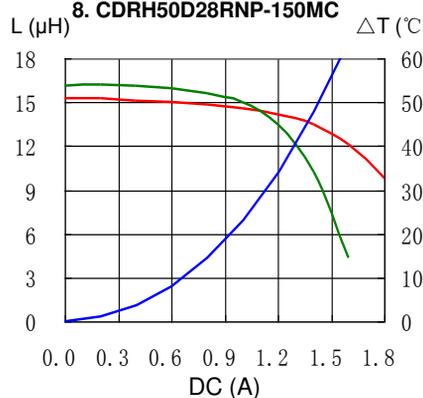
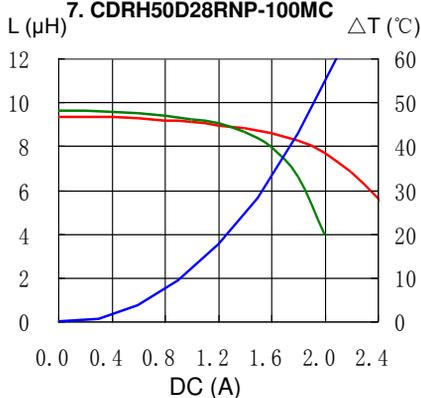
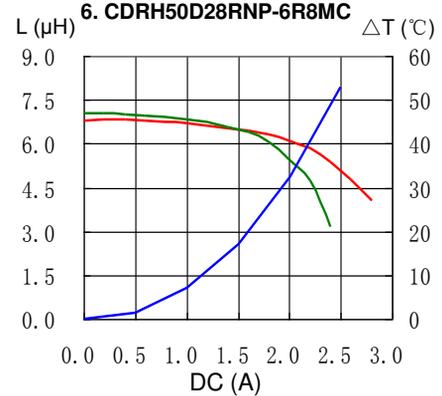
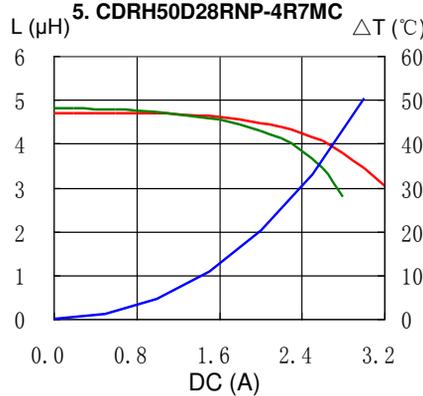
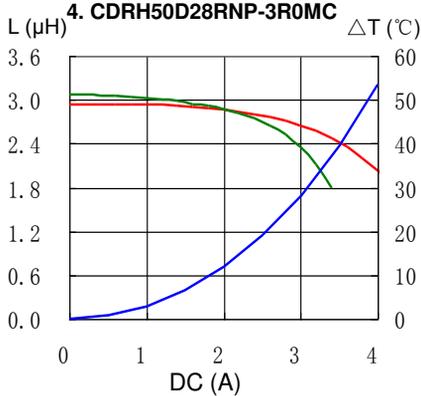
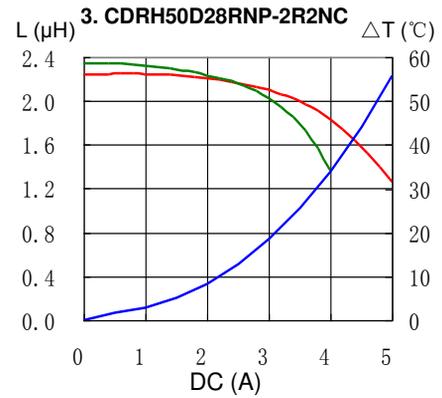
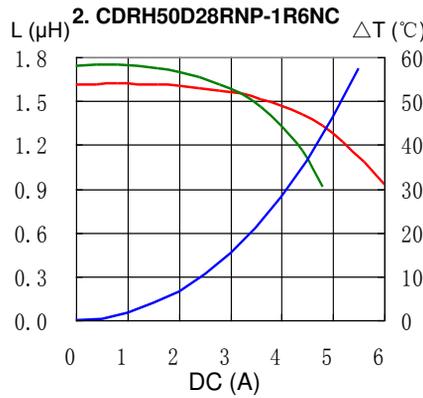
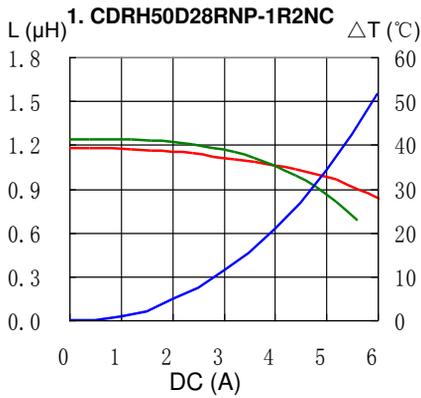
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

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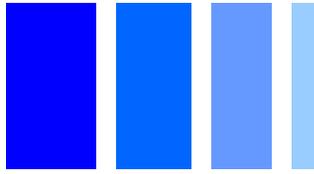


Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

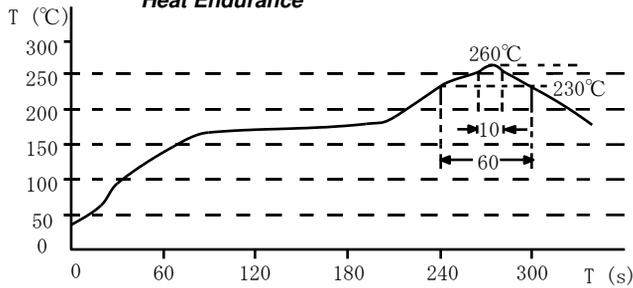


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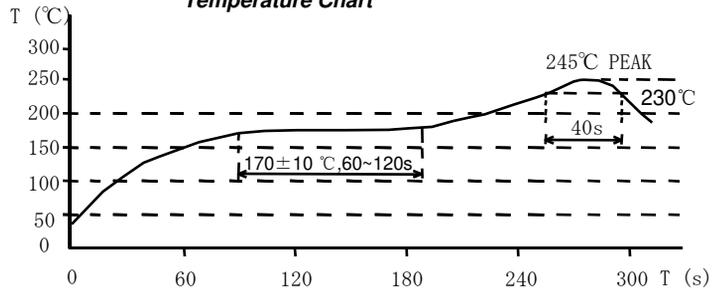


Solder Reflow Condition

Heat Endurance



Temperature Chart



Please refer to the sales offices on our website - <http://www.sumida.com>

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