

SMD Power Inductor

CDRH38D16R



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 4.2 × 3.95 × 1.8 mm Max.
- Product weight: 85mg(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.

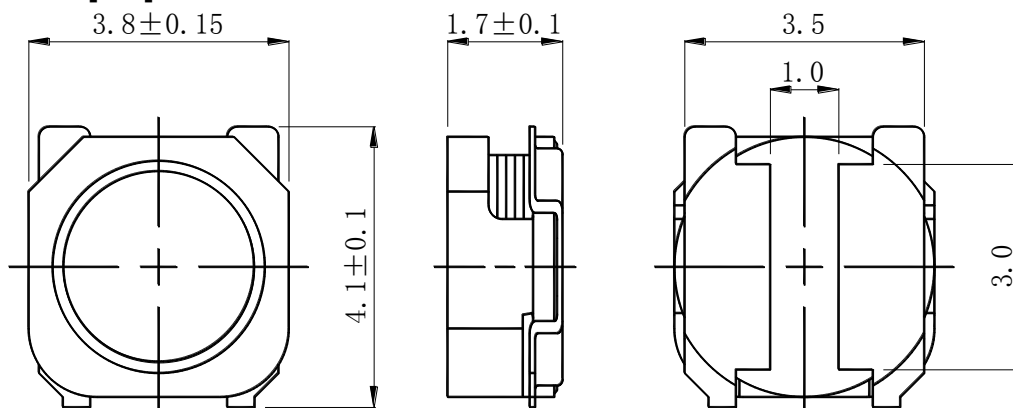
Packaging

- Carrier tape and reel packaging
- 13.0" diameter reel
- 3000pcs per reel

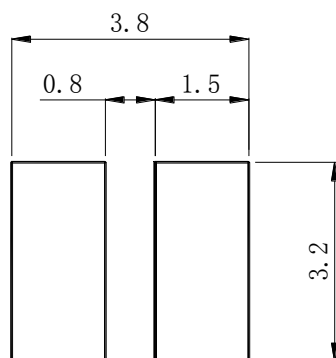
Applications

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

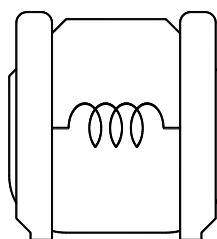
Dimension - [mm]



Recommended Land pattern - [mm]



Connection (Bottom view)



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Electrical Characteristics

Part No.	Stamp	Inductance (μH) [Within] ※1	D.C.R. (mΩ) [Within] (at20°C)	Saturation current (A) ※2		Temperature rise Current (A) ※3
				(at20°C)	(at105°C)	
CDRH38D16RNP-R90NC	A	0.90±30%	19±25%	2.18	1.73	3.45
CDRH38D16RNP-1R6NC	B	1.6±30%	27±25%	1.65	1.39	3.05
CDRH38D16RNP-2R2NC	C	2.2±30%	30±25%	1.41	1.22	2.85
CDRH38D16RNP-3R3MC	D	3.3±20%	47±25%	1.16	0.99	2.25
CDRH38D16RNP-4R7MC	E	4.7±20%	68±25%	0.95	0.80	1.75
CDRH38D16RNP-6R8MC	F	6.8±20%	91±25%	0.81	0.69	1.50
CDRH38D16RNP-100MC	G	10±20%	127±20%	0.62	0.54	1.30
CDRH38D16RNP-150MC	H	15±20%	174±20%	0.53	0.47	1.15
CDRH38D16RNP-220MC	J	22±20%	303±20%	0.44	0.38	0.80
CDRH38D16RNP-330MC	K	33±20%	431±20%	0.35	0.31	0.68
CDRH38D16RNP-470MC	L	47±20%	788±20%	0.29	0.24	0.47
CDRH38D16RNP-680MC	M	68±20%	1007±20%	0.26	0.22	0.42
CDRH38D16RNP-101MC	N	100±20%	1521±20%	0.20	0.17	0.33

※1 Measuring condition: at 100kHz.

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

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

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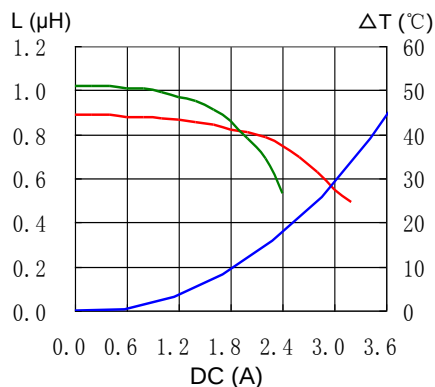
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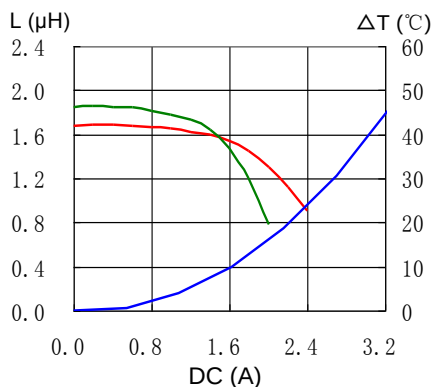
Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

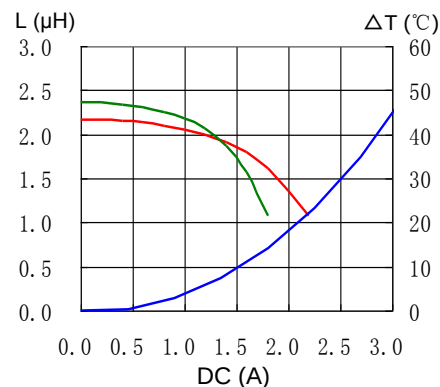
1. CDRH38D16RNP-R90NC



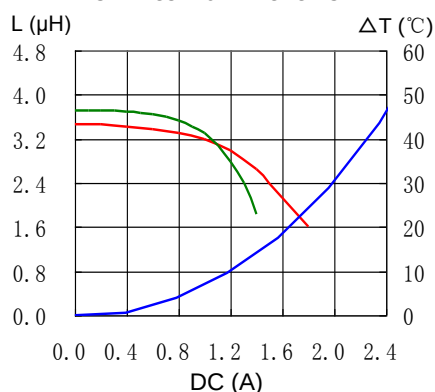
2. CDRH38D16RNP-1R6NC



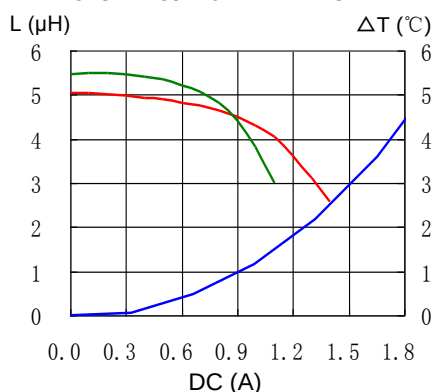
3. CDRH38D16RNP-2R2NC



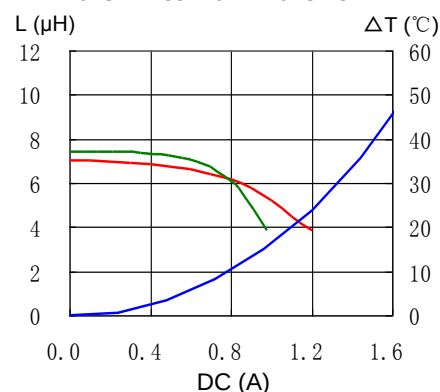
4. CDRH38D16RNP-3R3MC



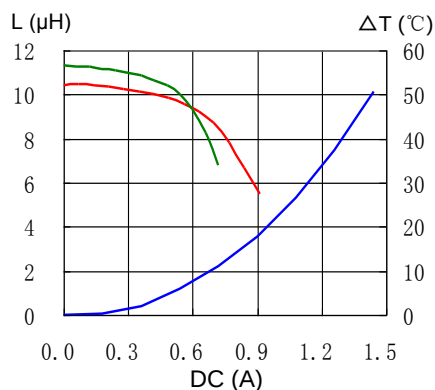
5. CDRH38D16RNP-4R7MC



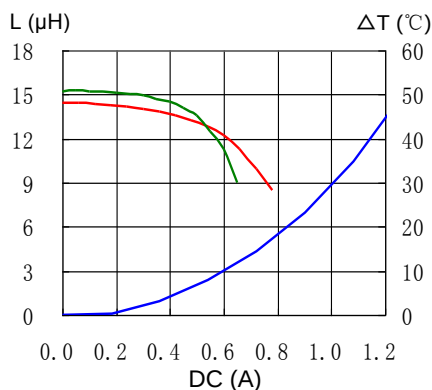
6. CDRH38D16RNP-6R8MC



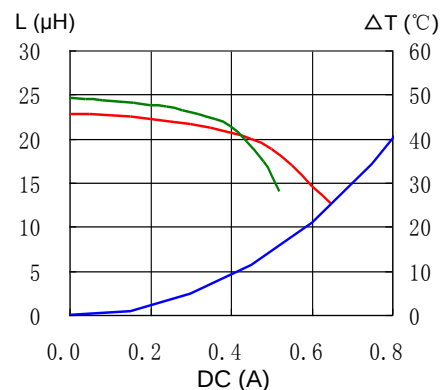
7. CDRH38D16RNP-100MC



8. CDRH38D16RNP-150MC



9. CDRH38D16RNP-220MC



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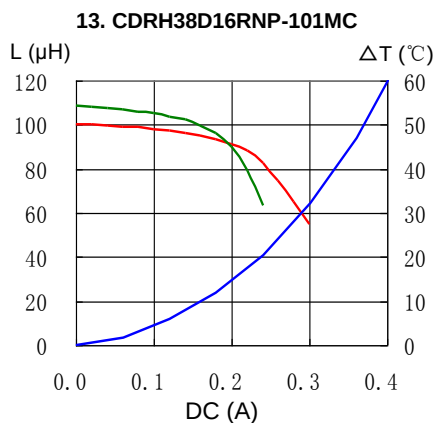
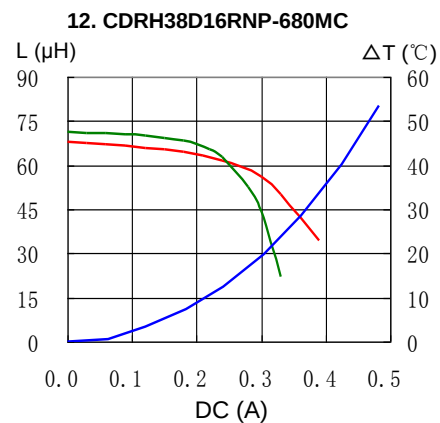
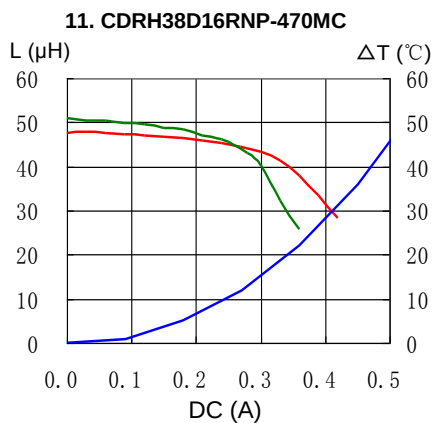
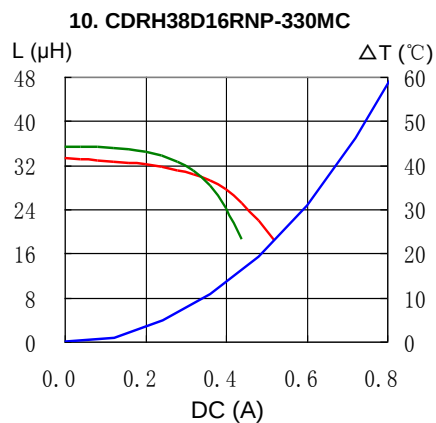
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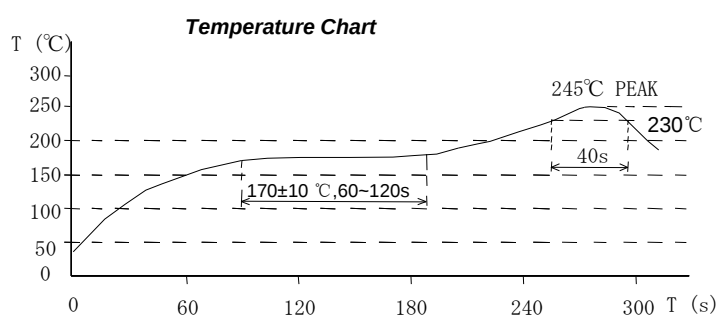
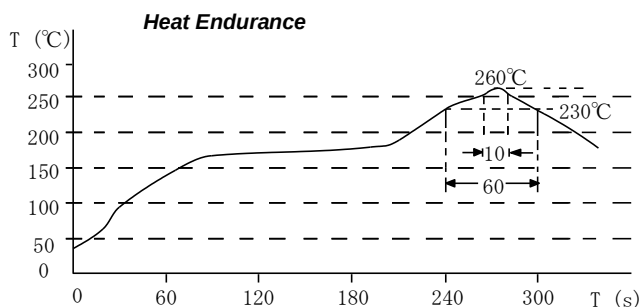


Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT



Solder Reflow Condition



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

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