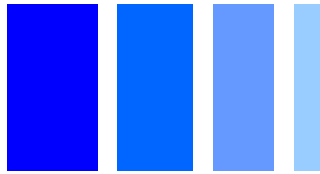
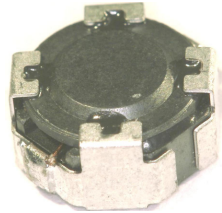


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Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 10.5 × 10.5 × 5.0 mm Max.
- Product weight 1.8g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Qualification to AEC-Q200.

Environmental Data

- Operating temperature range: -40°C ~ +150°C (excluding coil's self temperature rise).
- Storage temperature range: -40°C ~ +85°C
- Solder reflow temperature: 260 °C peak.

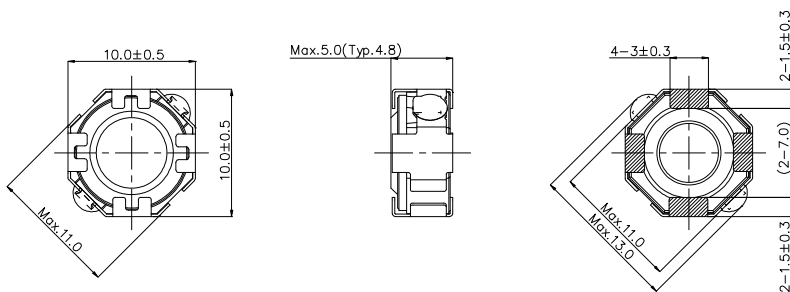
Packaging

- Carrier tape and reel packaging.

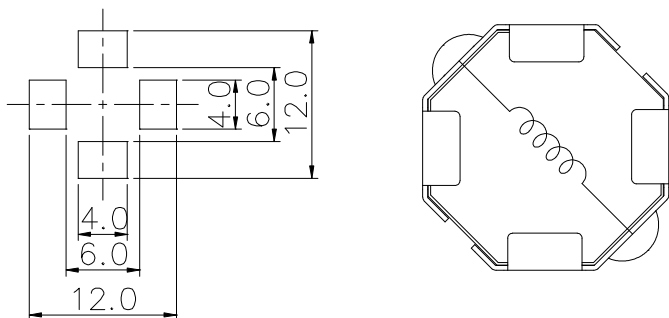
Applications

- Automotive and other high temperature, high reliability application.

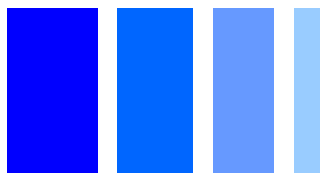
Dimension - [mm]



Land pattern and Schematics - [mm]



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Electrical Characteristics

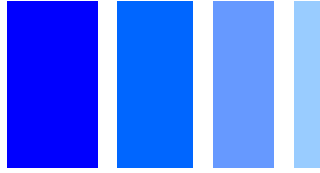
Part No.	Stamp	Inductance (μ H) [within] ※1	D.C.R. (m Ω) [Max.] (at 20°C)	Saturation current (A) ※2		Temperature rise current (A) ※3
				(at 20°C)	(at 150°C)	
CDRH10D48/AANP-100NC	100	10 \pm 30%	37(29)	3.10	2.55	2.87
CDRH10D48/AANP-150NC	150	15 \pm 30%	49(39)	2.49	2.05	2.43
CDRH10D48/AANP-220NC	220	22 \pm 30%	72(57)	2.03	1.66	1.96
CDRH10D48/AANP-330NC	330	33 \pm 30%	122(97)	1.73	1.40	1.54
CDRH10D48/AANP-470NC	470	47 \pm 30%	160(128)	1.42	1.17	1.25
CDRH10D48/AANP-680NC	680	68 \pm 30%	224(179)	1.13	0.94	0.99
CDRH10D48/AANP-101NC	101	100 \pm 30%	390(312)	0.97	0.80	0.75
CDRH10D48/AANP-151NC	151	150 \pm 30%	580(464)	0.77	0.64	0.62
CDRH10D48/AANP-221NC	221	220 \pm 30%	847(677)	0.69	0.55	0.51
CDRH10D48/AANP-331NC	331	330 \pm 30%	1370(1090)	0.50	0.42	0.40
CDRH10D48/AANP-471NC	471	470 \pm 30%	2220(1770)	0.45	0.35	0.30
CDRH10D48/AANP-681NC	681	680 \pm 30%	2720(2170)	0.36	0.29	0.28

※1. Measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 65% of its nominal value.

※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta T = 30^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

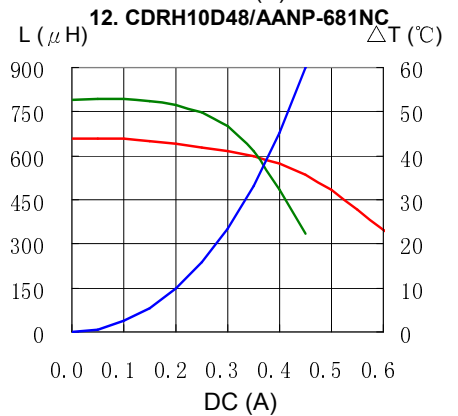
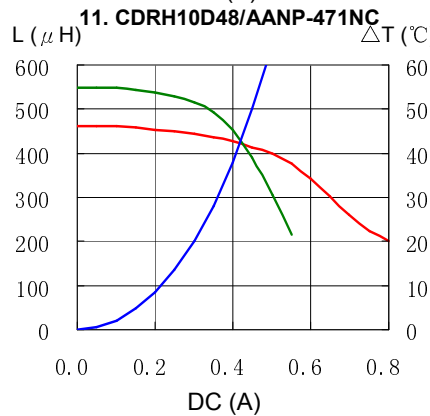
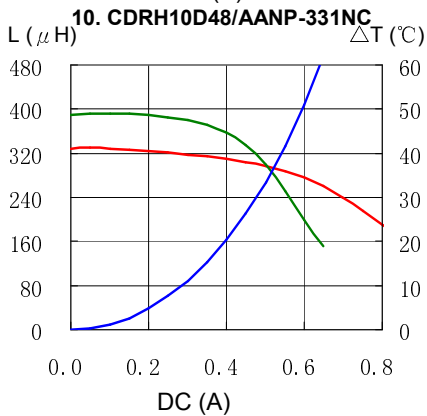
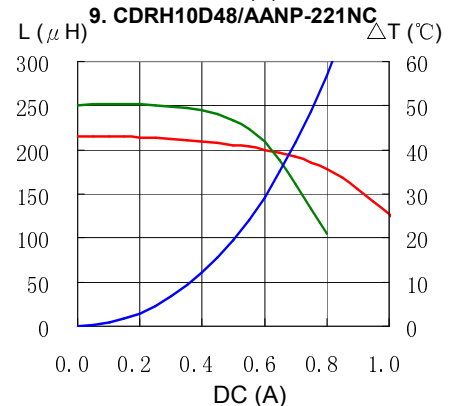
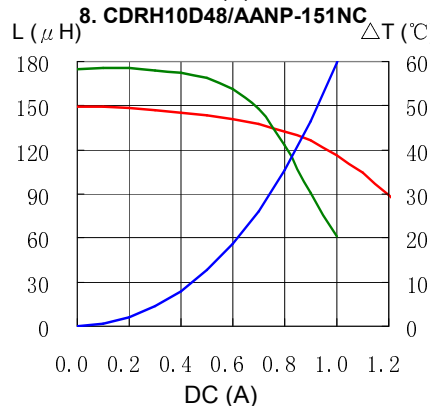
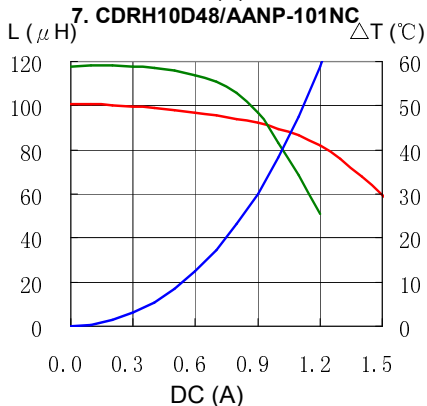
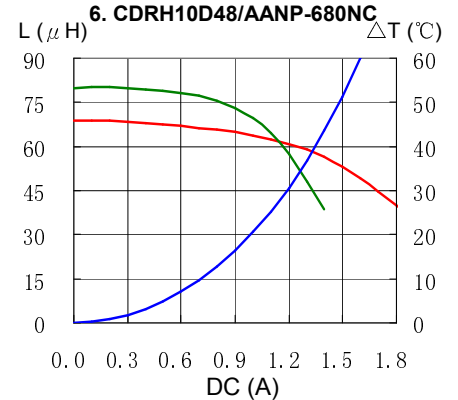
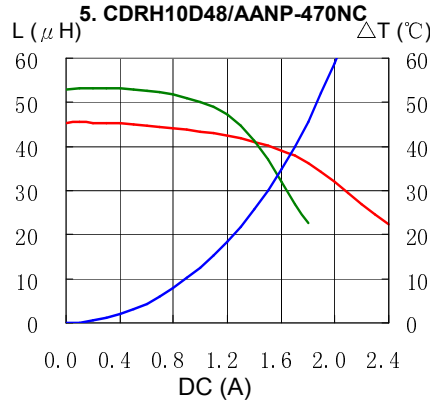
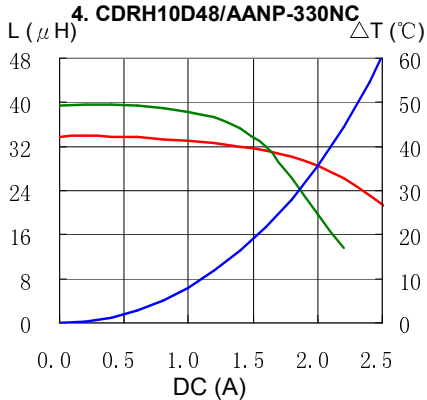
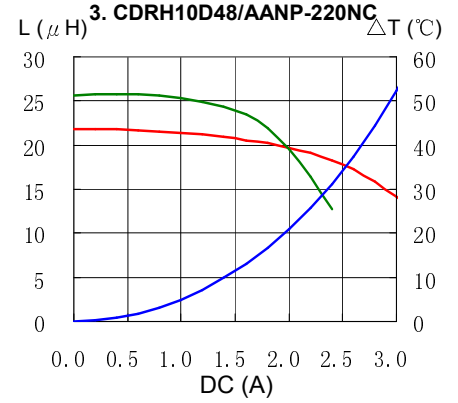
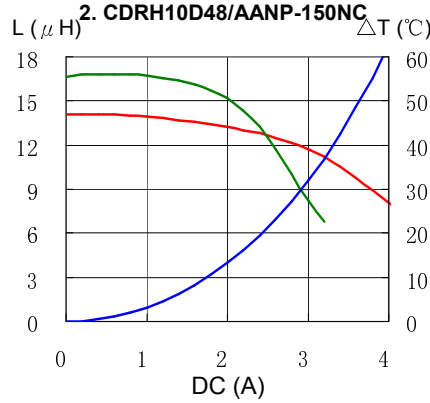
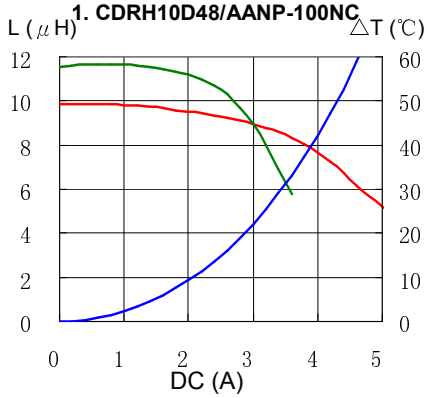
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Saturation Current & Temperature Rise Graph

— L (20°C) — L (155°C) — ΔT



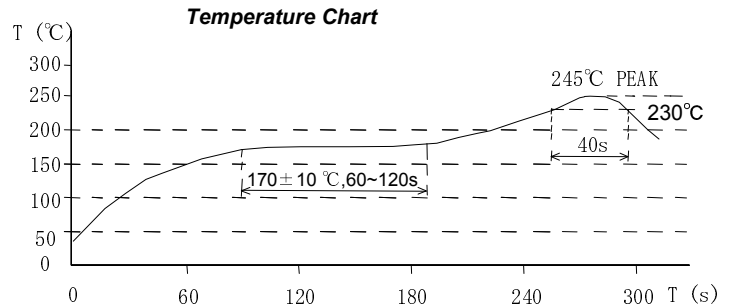
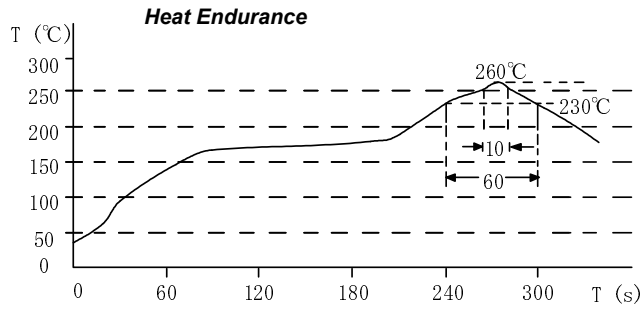
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Solder Reflow Condition



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