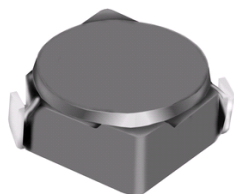


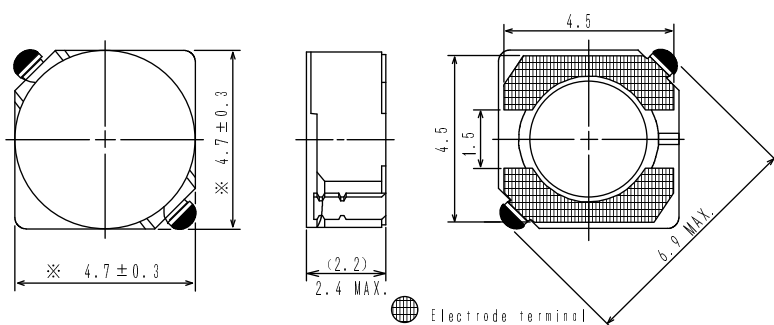
SMD Power Inductor CDRH4D22/E



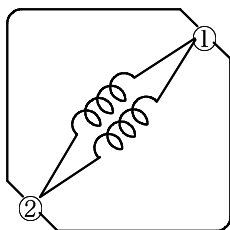
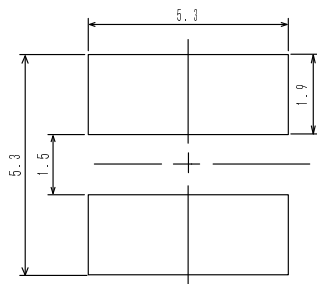
Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 5.0 × 5.0 × 2.4 mm Max.
- Product weight: 181mg (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

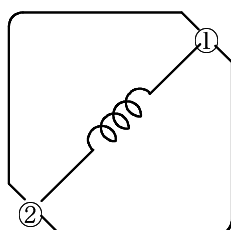
Dimension - [mm]



Land pattern and Schematics - [mm]



(1.5 μ H ~ 8.2 μ H)



(10 μ H ~ 150 μ H)

Environmental Data

- Operating temperature range: -40°C ~ +100°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +100°C
- Solder reflow temperature: 260 °C peak.

Packaging

- Carrier tape and reel packaging
- 12.9" diameter reel
- 2000 pcs per reel

Applications

- Ideally used in Mobile phone, PDA, MP3, HDD, DSC/DVC, Portable Computers, etc as DC-DC converter inductors

SMD Power Inductor

CDRH4D22/E



Electrical Characteristics

Part Name	Stamp	Inductance (μ H) [within] ※1	D.C.R.(Ω) Max. (Typ.) (at 20°C)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				at 20°C	at 100°C	
CDRH4D22ENP-1R5NC	1R5	1.5 $\pm$ 30%	18.3m(14.0m)	2.00	1.60	4.20
CDRH4D22ENP-1R8NC	1R8	1.8 $\pm$ 30%	21.6m(16.6m)	1.90	1.50	3.70
CDRH4D22ENP-2R3NC	2R3	2.3 $\pm$ 30%	25.4m(19.5m)	1.80	1.40	3.60
CDRH4D22ENP-3R3NC	3R3	3.3 $\pm$ 30%	35.0m(27.0m)	1.40	1.10	3.07
CDRH4D22ENP-3R9NC	3R9	3.9 $\pm$ 30%	40.2m(30.9m)	1.30	1.00	3.04
CDRH4D22ENP-4R7NC	4R7	4.7 $\pm$ 30%	55.9m(43.0m)	1.10	0.90	2.08
CDRH4D22ENP-5R6NC	5R6	5.6 $\pm$ 30%	62.0m(47.7m)	1.05	0.85	2.05
CDRH4D22ENP-6R8NC	6R8	6.8 $\pm$ 30%	88.0m(67.7m)	1.00	0.75	1.95
CDRH4D22ENP-8R2NC	8R2	8.2 $\pm$ 30%	96.5m(74.2m)	0.90	0.65	1.85
CDRH4D22ENP-100MC	100	10 $\pm$ 20%	102.4m(78.8m)	0.80	0.60	1.82
CDRH4D22ENP-120MC	120	12 $\pm$ 20%	110.4m(84.9m)	0.75	0.55	1.80
CDRH4D22ENP-150MC	150	15 $\pm$ 20%	127.4m(98.0m)	0.68	0.50	1.59
CDRH4D22ENP-180MC	180	18 $\pm$ 20%	168.7m(129.8m)	0.60	0.43	1.41
CDRH4D22ENP-220MC	220	22 $\pm$ 20%	199.7m(153.6m)	0.54	0.41	1.32
CDRH4D22ENP-270MC	270	27 $\pm$ 20%	282.5m(217.3m)	0.51	0.38	1.04
CDRH4D22ENP-330MC	330	33 $\pm$ 20%	325.8m(250.6m)	0.48	0.35	1.02
CDRH4D22ENP-390MC	390	39 $\pm$ 20%	451.0m(347.1m)	0.43	0.32	0.85
CDRH4D22ENP-470MC	470	47 $\pm$ 20%	500.4m(384.9m)	0.38	0.30	0.82
CDRH4D22ENP-560MC	560	56 $\pm$ 20%	555.4m(427.2m)	0.36	0.28	0.72
CDRH4D22ENP-680MC	680	68 $\pm$ 20%	634.0m(487.8m)	0.33	0.25	0.67
CDRH4D22ENP-820MC	820	82 $\pm$ 20%	794.6m(608.9m)	0.30	0.22	0.58
CDRH4D22ENP-101MC	101	100 $\pm$ 20%	0.88(0.67)	0.25	0.20	0.55
CDRH4D22ENP-121MC	121	120 $\pm$ 20%	1.14(0.88)	0.23	0.18	0.52
CDRH4D22ENP-151MC	151	150 $\pm$ 20%	1.35(1.04)	0.21	0.17	0.47

※1. Inductance measuring condition: at 100kHz.

※2. Saturation current: The DC current at which the inductance decreases to 65% of its nominal value.

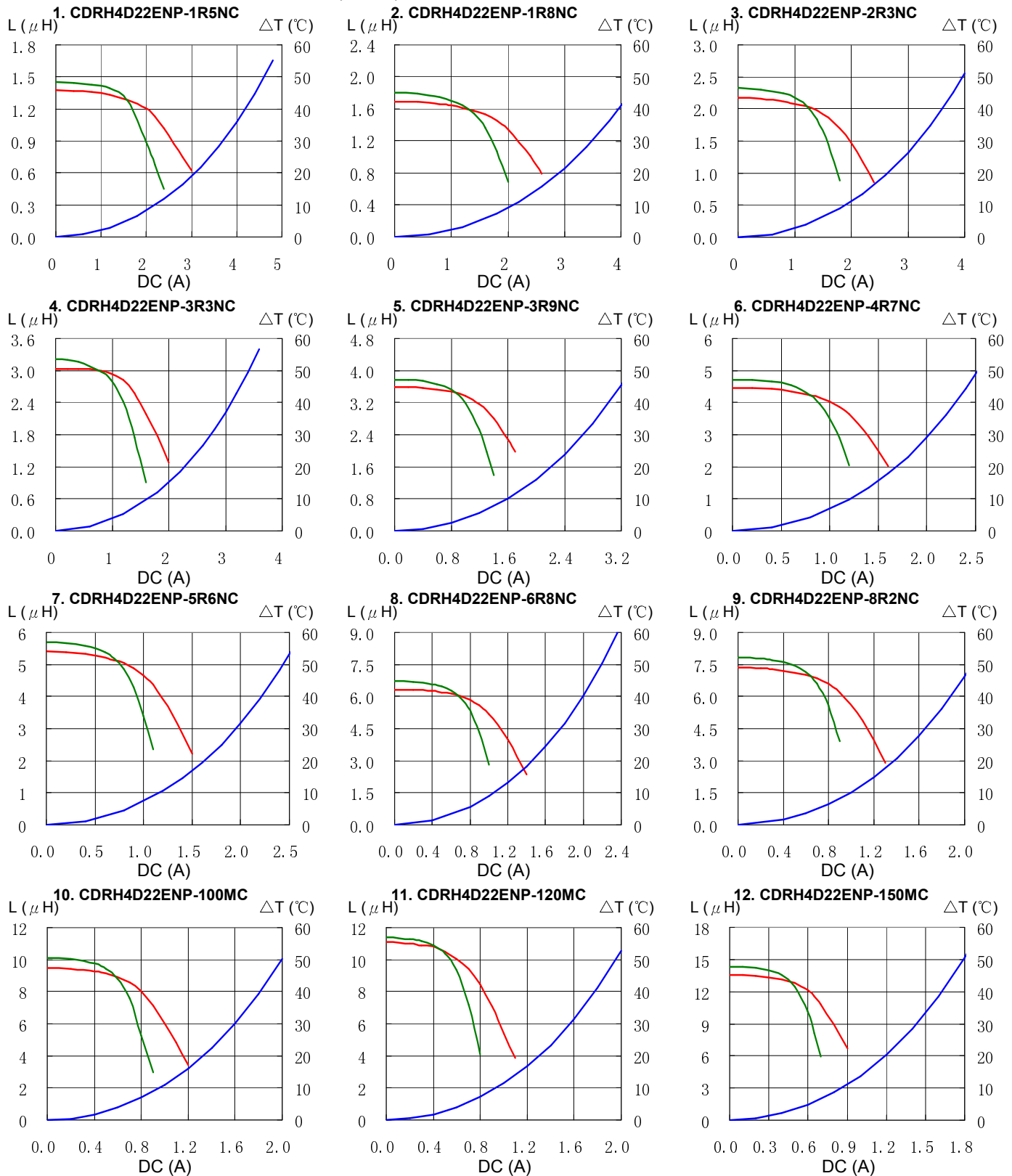
※3. Temperature rise current: The DC current at which the temperature rise is $\Delta t=40^{\circ}\text{C}$. ($T_a=20^{\circ}\text{C}$)

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Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

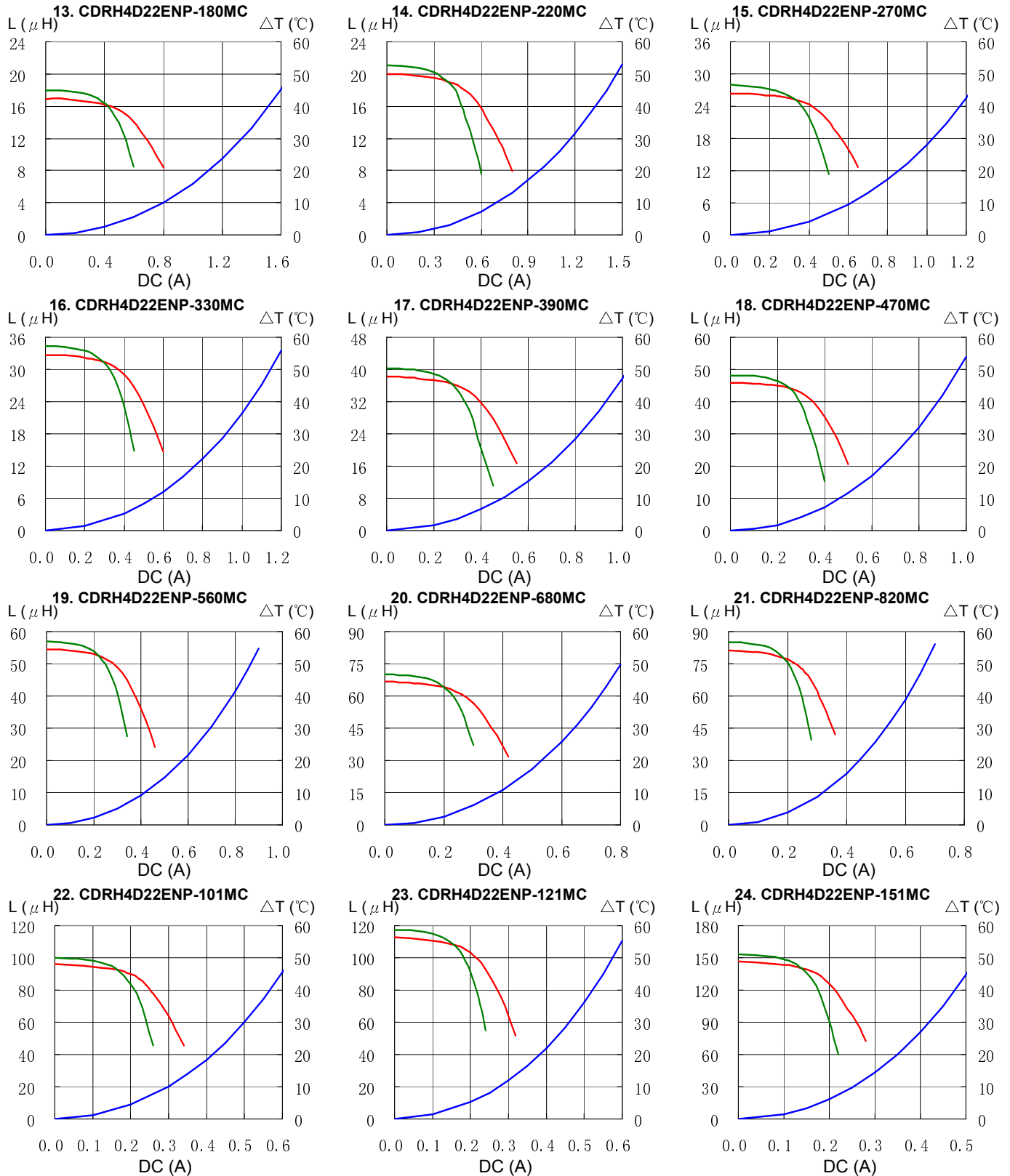


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Saturation Current & Temperature Rise Graph

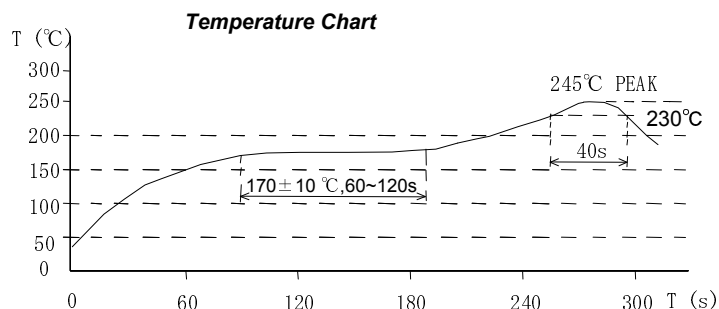
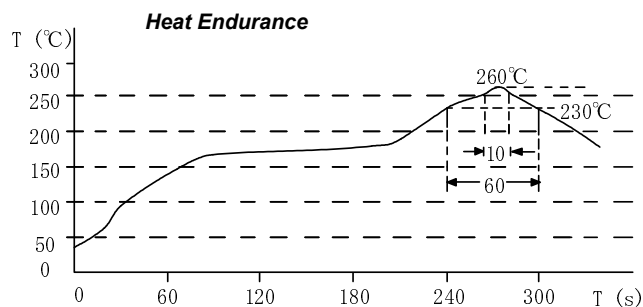
— L (20°C) — L (100°C) — ΔT



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Solder Reflow Condition



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