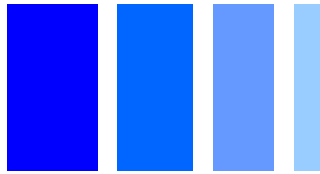


SMD Power Inductor CDRH58D22



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Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 6.8 × 6.0 × 2.4 mm Max.
- Product weight: 0.25g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

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.

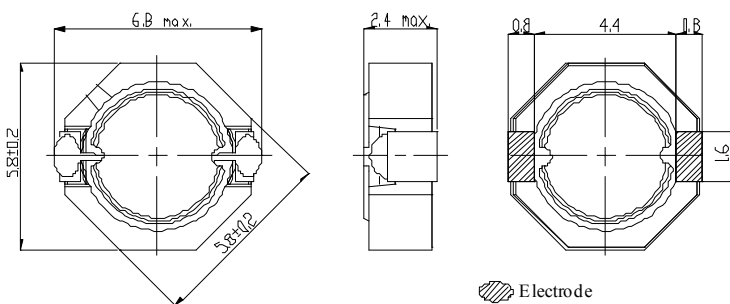
Packaging

- Carrier tape and reel packaging

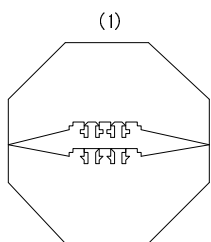
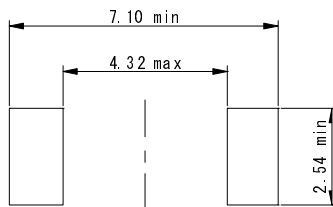
Applications

- Ideally used in Game machine, Notebook PC, DVD/DVC, LCD TV, STB, etc as DC-DC converter inductors .

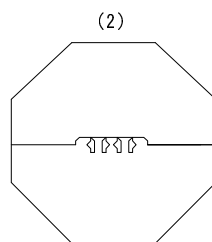
Dimension - [mm]



Land pattern and Schematics - [mm]



{ 1.0 μH ~ 6.8 μH }



{ 8.2 μH ~ 100 μH }

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Electrical Characteristics

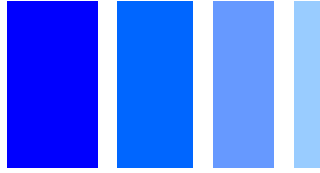
Part Name	Stamp	Inductance (μH) ※1 [within]	D.C.R. (Ω) [Max.] (Typ.) (at 20°C)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				at 20°C	at 105°C	
CDRH58D22HF-1R0MC	<u>A</u>	1.0 \pm 20%	19.1m(15.3m)	5.65	4.80	4.05
CDRH58D22HF-1R5MC	<u>B</u>	1.5 \pm 20%	23.3m(18.6m)	4.95	4.15	3.85
CDRH58D22HF-2R2MC	<u>C</u>	2.2 \pm 20%	35.6m(28.5m)	3.68	3.04	3.20
CDRH58D22HF-3R3MC	<u>D</u>	3.3 \pm 20%	54.8m(43.8m)	3.05	2.55	2.25
CDRH58D22HF-4R7MC	<u>E</u>	4.7 \pm 20%	69.0m(55.2m)	2.70	2.20	2.05
CDRH58D22HF-5R6MC	<u>F</u>	5.6 \pm 20%	93.4m(74.7m)	2.40	1.95	1.65
CDRH58D22HF-6R8MC	<u>G</u>	6.8 \pm 20%	105m(84.2m)	2.20	1.85	1.55
CDRH58D22HF-8R2MC	<u>H</u>	8.2 \pm 20%	114m(91.4m)	1.95	1.60	1.45
CDRH58D22HF-100MC	A	10 \pm 20%	154m(123m)	1.70	1.40	1.27
CDRH58D22HF-120MC	B	12 \pm 20%	165m(132m)	1.64	1.35	1.10
CDRH58D22HF-150MC	C	15 \pm 20%	231m(185m)	1.40	1.15	0.95
CDRH58D22HF-220MC	D	22 \pm 20%	313m(250m)	1.00	0.90	0.80
CDRH58D22HF-330MC	E	33 \pm 20%	448m(358m)	0.90	0.80	0.60
CDRH58D22HF-470MC	F	47 \pm 20%	619m(495m)	0.80	0.68	0.50
CDRH58D22HF-680MC	G	68 \pm 20%	889m(711m)	0.70	0.58	0.40
CDRH58D22HF-820MC	H	82 \pm 20%	1.31(1.05)	0.60	0.50	0.30
CDRH58D22HF-101MC	J	100 \pm 20%	1.50(1.20)	0.55	0.45	0.20

※1. Inductance 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 $\Delta t=40^\circ\text{C}$ ($T_a=20^\circ\text{C}$).

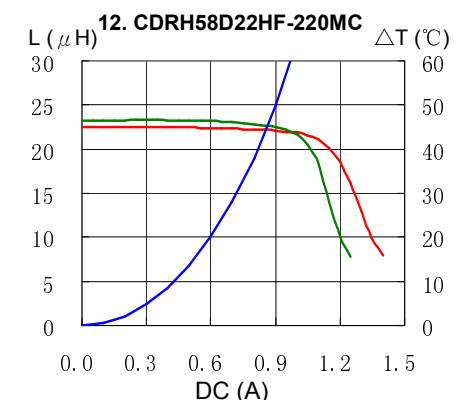
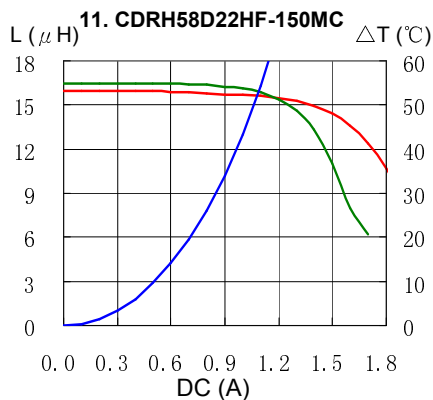
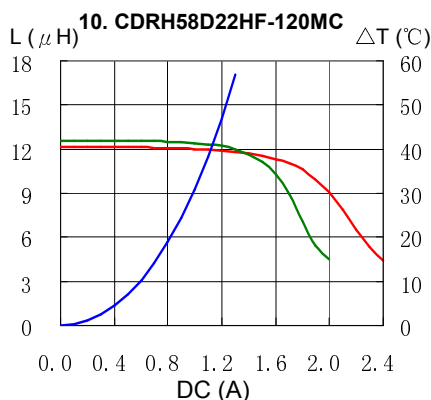
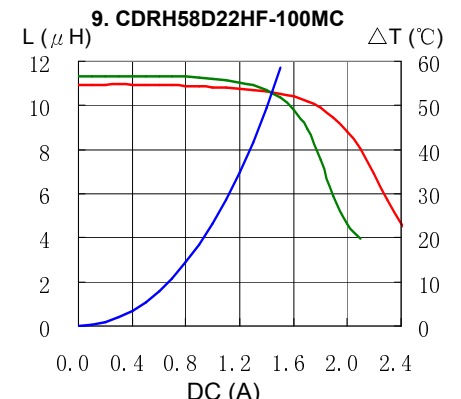
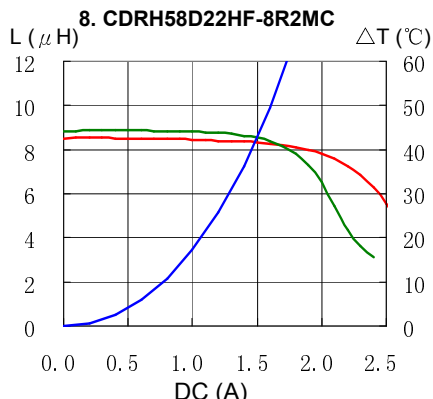
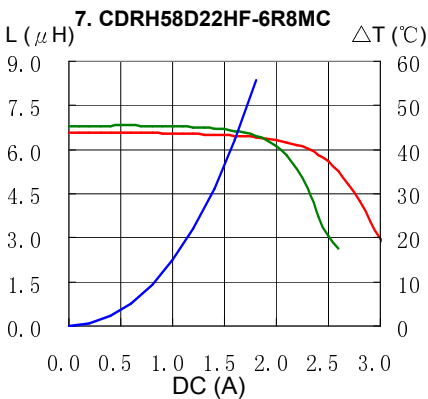
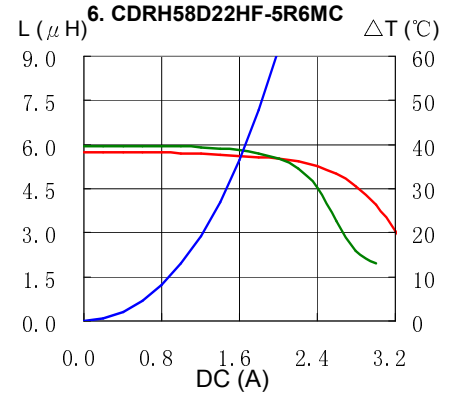
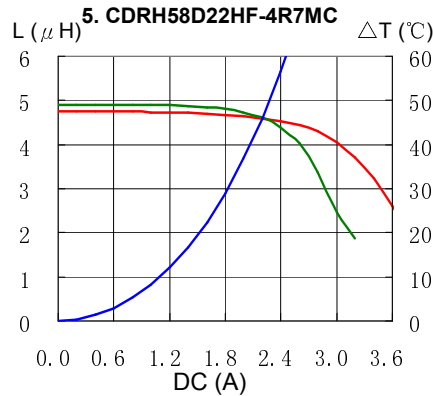
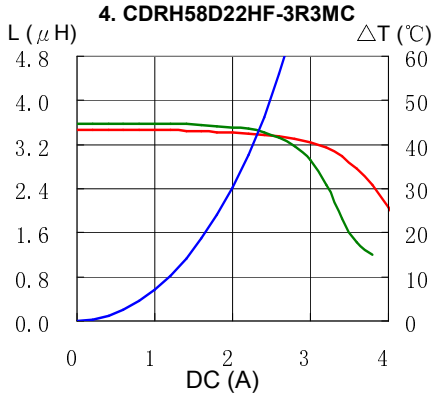
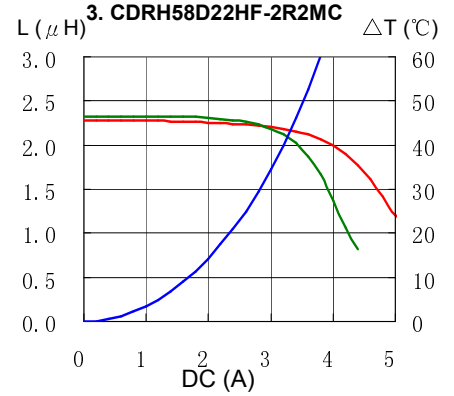
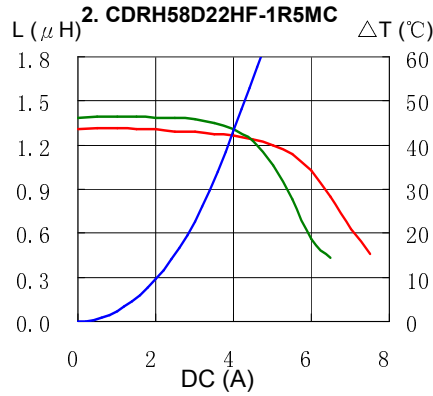
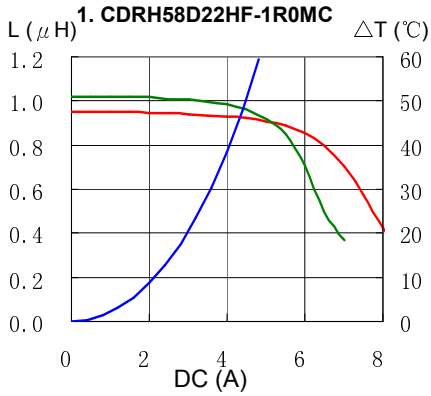
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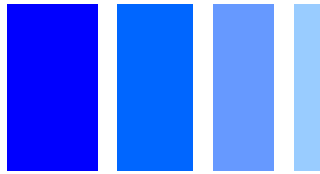
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Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

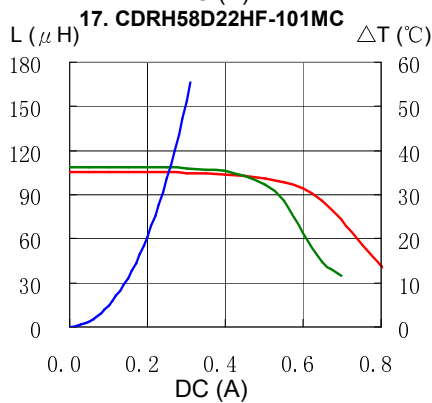
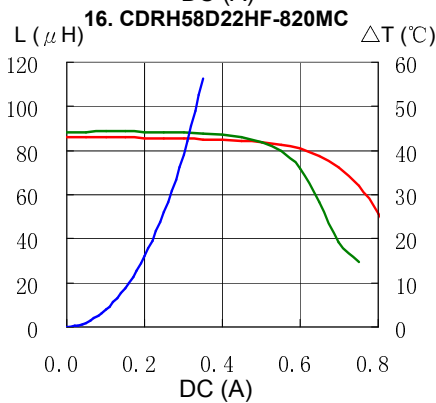
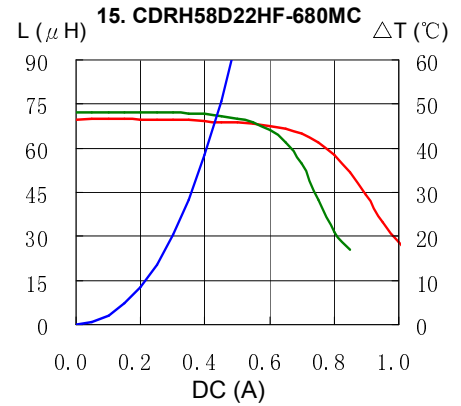
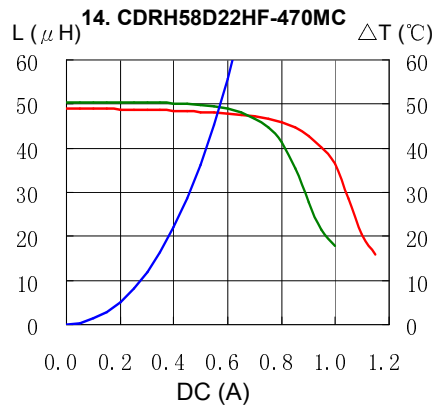
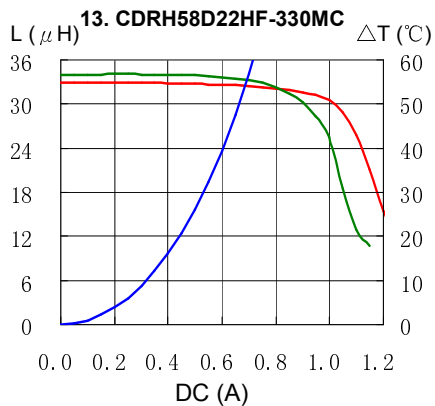


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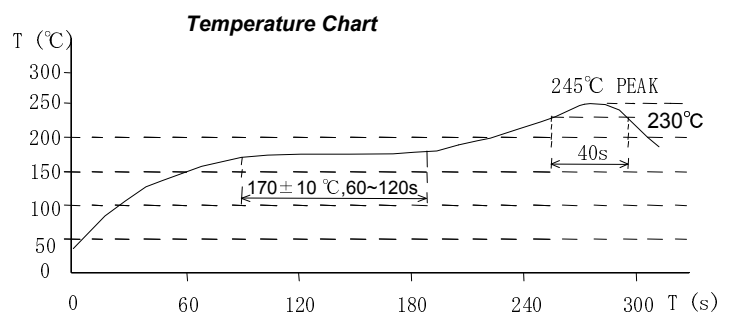
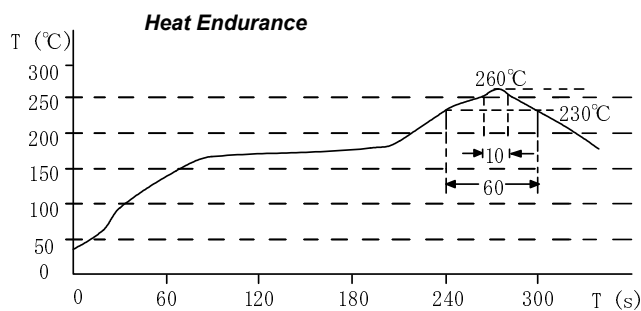


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— L (20°C) — L (105°C) — ΔT



Solder Reflow Condition



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