

SMD Power Inductor CDRH98D18R



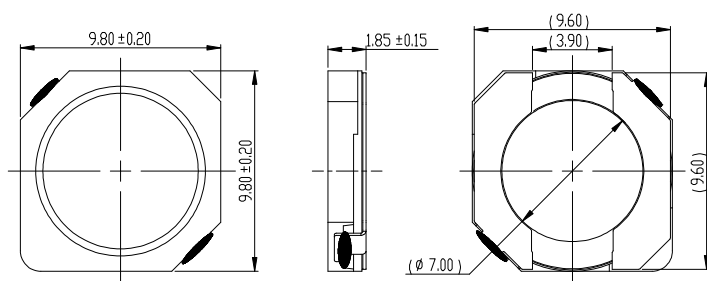
Halogen
Free



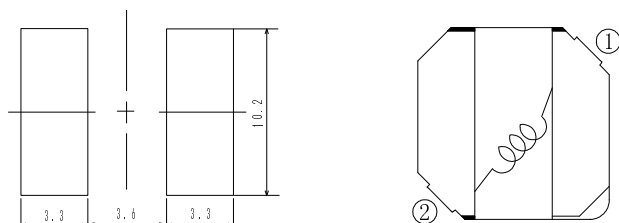
Description

- Ferrite drum core construction
- Magnetically shielded
- L × W × H: 10.0 × 10.0 × 2.0 mm Max.
- Product weight: 0.72g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

Dimension - [mm]



Land pattern and Schematics - [mm]



Electrical Characteristics

Part No.	Stamp	Inductance (μ H) [Within]※1	D.C.R. (m Ω) [Max.] (Typ.) (at 20°C)	Saturation current (A) ※2		Temperature rise current (A) ※3
				(at 20°C)	(at 105°C)	
CDRH98D18RNP-2R0MC	2R0	2.0 ± 20%	22.5(18)	5.10	4.20	4.90
CDRH98D18RNP-3R0MC	3R0	3.0 ± 20%	29.0(23)	4.20	3.50	4.40
CDRH98D18RNP-4R3MC	4R3	4.3 ± 20%	38.5(31)	3.30	2.80	3.70
CDRH98D18RNP-6R8MC	6R8	6.8 ± 20%	66.0(53)	2.75	2.20	2.75
CDRH98D18RNP-100MC	100	10.0 ± 20%	102(82)	2.30	1.90	2.30
CDRH98D18RNP-150MC	150	15.0 ± 20%	125(100)	1.85	1.55	1.85
CDRH98D18RNP-220MC	220	22.0 ± 20%	195(156)	1.50	1.25	1.50
CDRH98D18RNP-330MC	330	33.0 ± 20%	287(230)	1.25	1.00	1.25
CDRH98D18RNP-470MC	470	47.0 ± 20%	410(328)	1.05	0.88	1.05

※1 Measuring condition : at 100kHz .

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

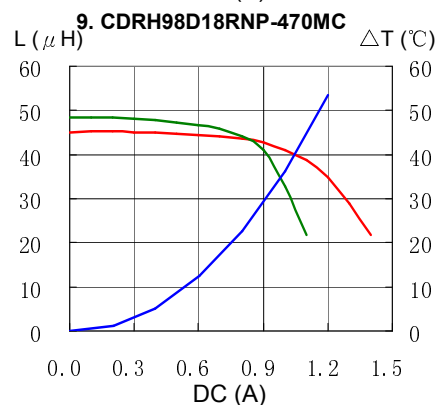
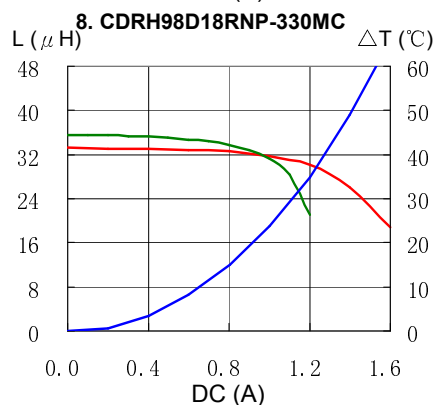
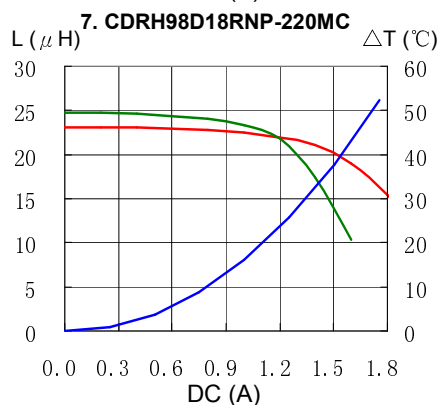
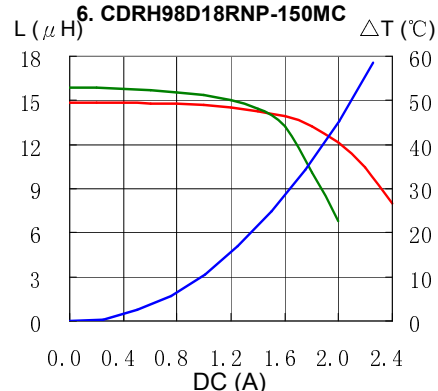
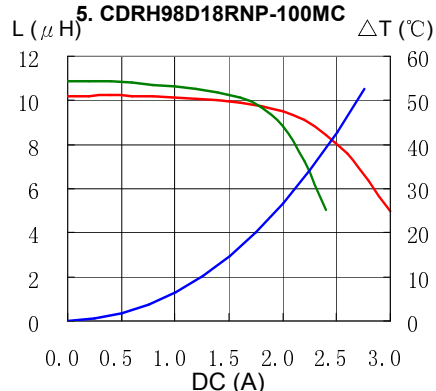
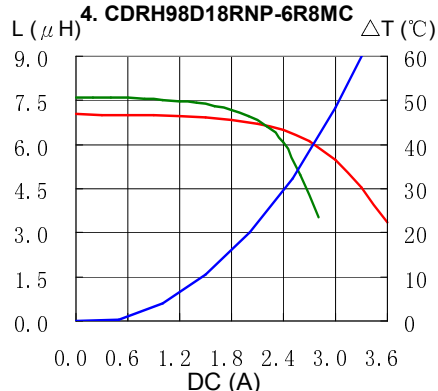
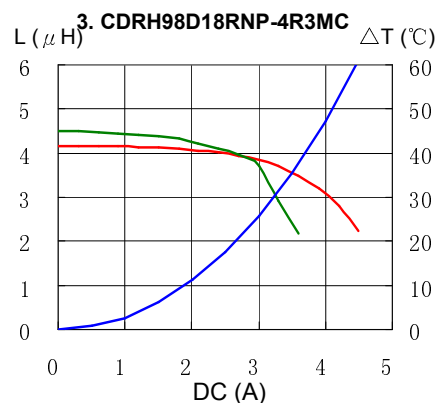
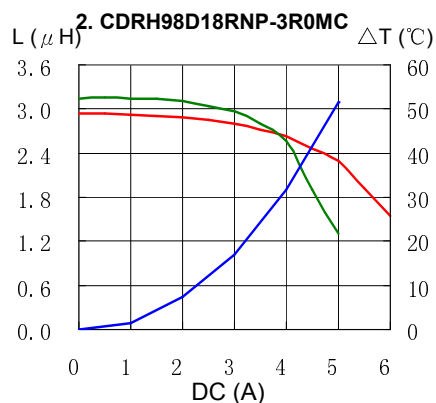
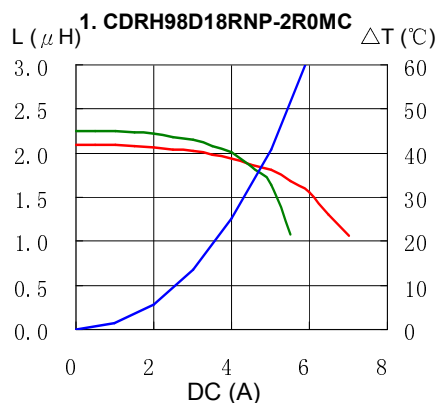
※3 Temperature rise current: The value of DC current when the temperature rise is $\Delta T = 40^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

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Saturation Current & Temperature Rise Graph

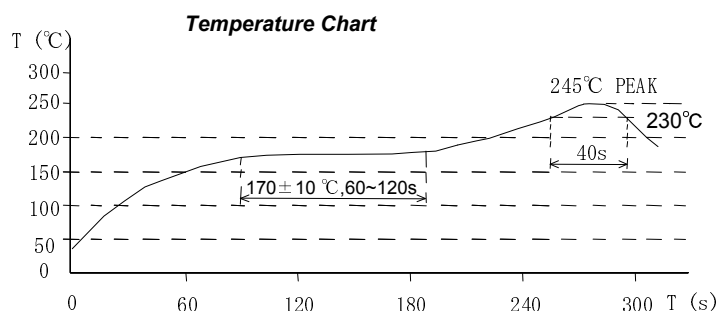
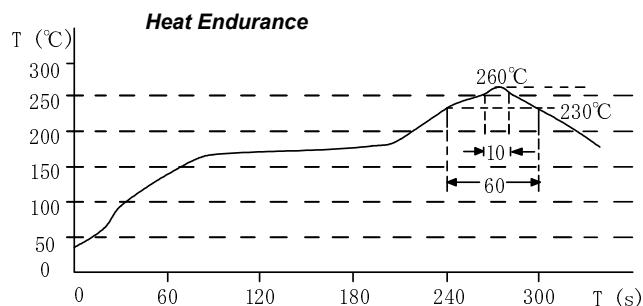
— L (20°C) — L (105°C) — ΔT



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Solder Reflow Condition



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Hong Kong

Tel. +852-2880-6688
FAX. +852-2565-9600
sales@hk.sumida.com

Tokyo

Tel. +81-3-5202-7112
FAX. +81-3-5202-7105
sales@jp.sumida.com

Chicago

Tel. +1-847-545-6700
FAX. +1-847-545-6720
sales@us.sumida.com

Shanghai

Tel. +86-021-5836-3299
FAX. +86-021-5836-3266
shanghai.sales@cn.sumida.com

Seoul

Tel. +82-2-6237-0777
FAX. +82-2-6237-0778
sales@kr.sumida.com

Obernzell

Tel. +49-8591-937-0
FAX. +49-8591-937-103
contact@sumida-eu.com

Shenzhen

Tel. +86-755-8291-0228
FAX. +86-755-8291-0338
shenzhen.sales@cn.sumida.com

Singapore

Tel. +65-6296-3388
FAX. +65-6296-3390
sales@sg.sumida.com

Neumarkt

Tel. +49-9181-4509-110
FAX. +49-9181-4509-310
info@comp@eu.sumida.com

Taipei

Tel. +886-2-8751-2737
FAX. +886-2-8751-2738
sales@tw.sumida.com

San Jose

Tel. +1-408-321-9660
FAX. +1-408-321-9308
sales@us.sumida.com