



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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SMD Power Inductor

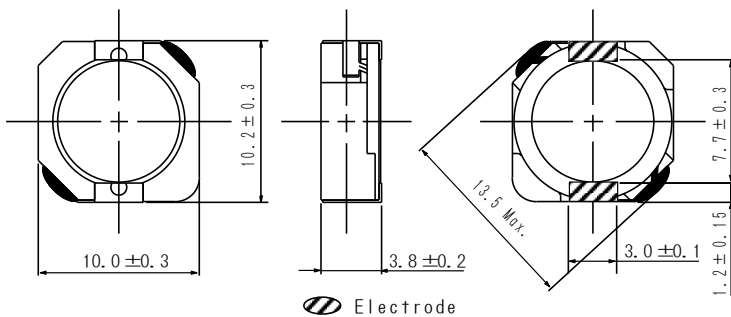
CDRH104R/T125



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 10.5 × 10.3 × 4.0 mm Max.
- Product weight: 1.5g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Qualified to AEC-Q200.

Dimension - [mm]



Environmental Data

- Operating temperature range: -40°C ~ +125°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +125°C
- Solder reflow temperature: 260 °C peak.

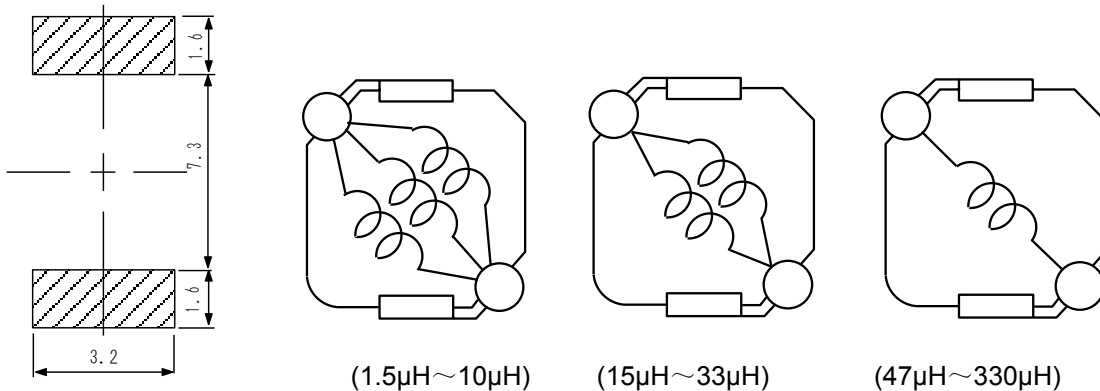
Packaging

- Carrier tape and reel packaging
- 13" diameter reel
- 1000pcs per reel

Applications

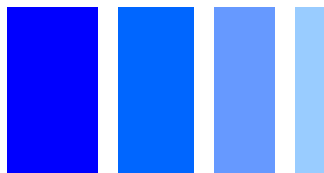
- Automotive.

Land pattern and Schematics - [mm]



SMD Power Inductor

CDRH104R/T125



Electrical Characteristics

Part No.	Stamp	Inductance (μ H) [Within] ※1	D.C.R. (Ω) [Max.] (at 20°C) ※2	Rated current (A)		
				Saturation current (A) ※3		Temperature rise current (A) ※4
				(at 20°C)	(at 125°C) (Typ.)	
CDRH104RT125NP-1R5PC	1R5	1.5 $\pm$ 25%	9.0m(7.2m)	9.20	7.36	7.80
CDRH104RT125NP-2R2PC	2R2	2.2 $\pm$ 25%	11.0m(8.8m)	8.00	6.16	7.10
CDRH104RT125NP-3R6PC	3R6	3.6 $\pm$ 25%	14.0m(11.2m)	6.07	5.00	6.20
CDRH104RT125NP-4R7PC	4R7	4.7 $\pm$ 25%	19.1m(15.3m)	5.57	4.60	5.20
CDRH104RT125NP-6R8PC	6R8	6.8 $\pm$ 25%	25.6m(20.5m)	4.66	3.94	4.40
CDRH104RT125NP-100MC	100	10 $\pm$ 20%	36.8m(29.5m)	4.10	3.46	3.50
CDRH104RT125NP-150MC	150	15 $\pm$ 20%	48.1m(38.5m)	3.34	2.80	2.90
CDRH104RT125NP-220MC	220	22 $\pm$ 20%	70.0m(56.0m)	2.56	2.18	2.30
CDRH104RT125NP-330MC	330	33 $\pm$ 20%	93.8m(75.0m)	2.14	1.80	2.05
CDRH104RT125NP-470MC	470	47 $\pm$ 20%	136m(109m)	1.80	1.51	1.68
CDRH104RT125NP-680MC	680	68 $\pm$ 20%	216m(173m)	1.57	1.32	1.25
CDRH104RT125NP-101MC	101	100 $\pm$ 20%	300m(240m)	1.30	1.10	1.05
CDRH104RT125NP-151MC	151	150 $\pm$ 20%	448m(358m)	1.00	0.85	0.86
CDRH104RT125NP-221MC	221	220 $\pm$ 20%	694m(555m)	0.85	0.72	0.68
CDRH104RT125NP-331MC	331	330 $\pm$ 20%	1.06(850m)	0.70	0.58	0.56

※ 1 Measuring condition: at 100kHz.

※ 2 () are typical value.

※ 3 Saturation current: The value of D.C. current when the inductance decreases to 65% of it's nominal value.

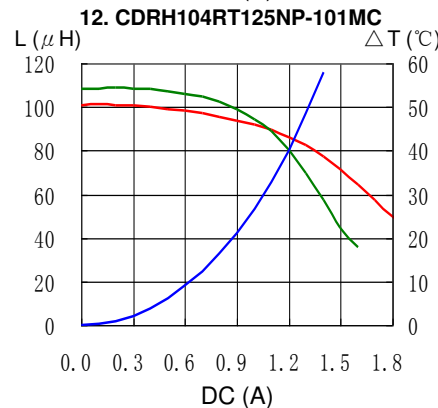
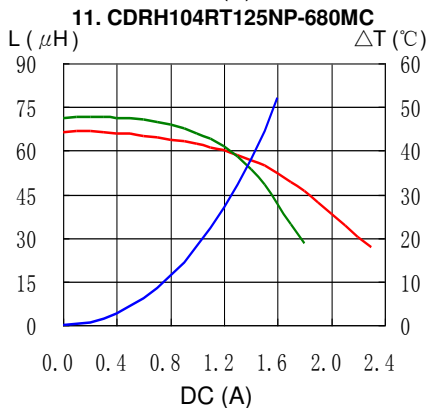
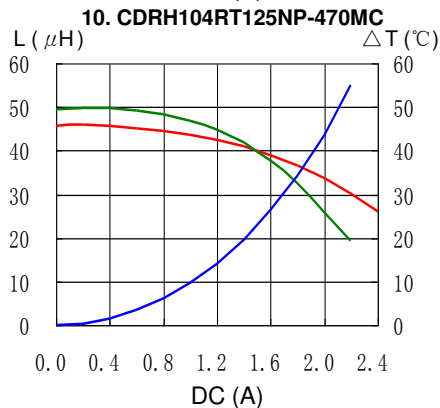
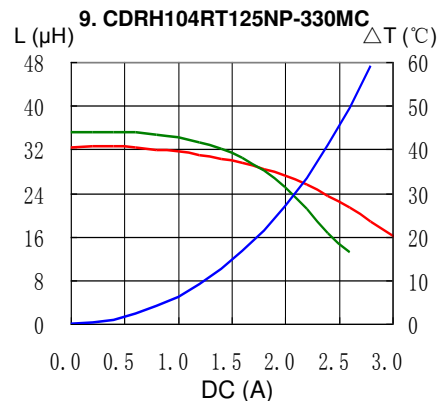
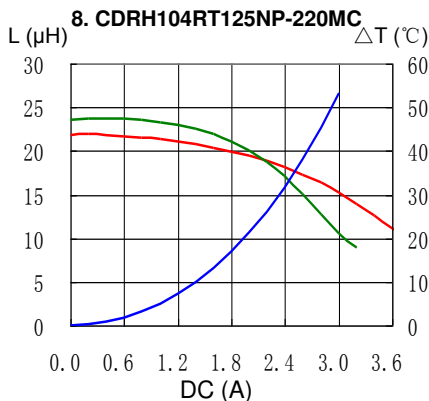
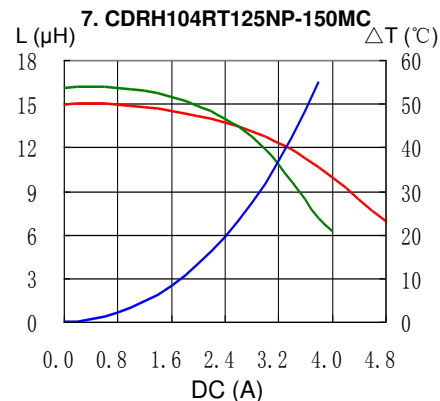
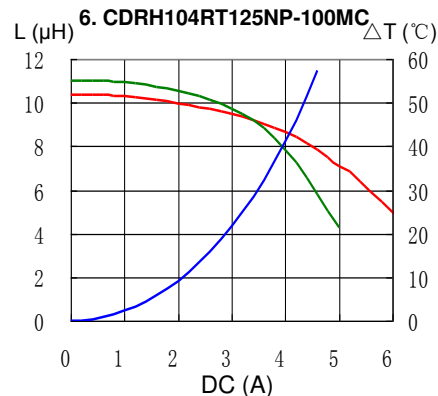
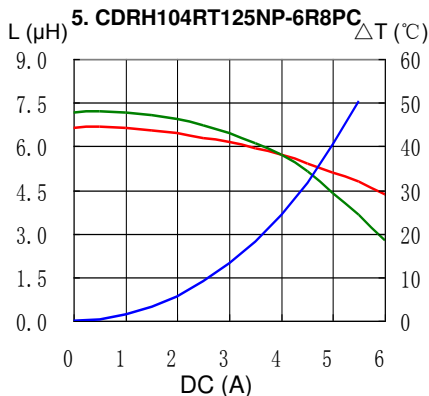
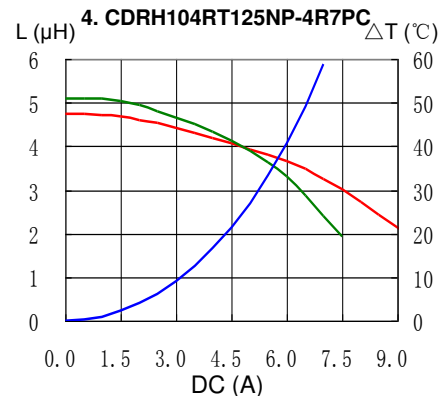
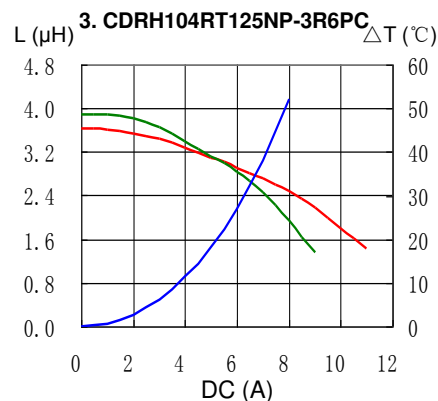
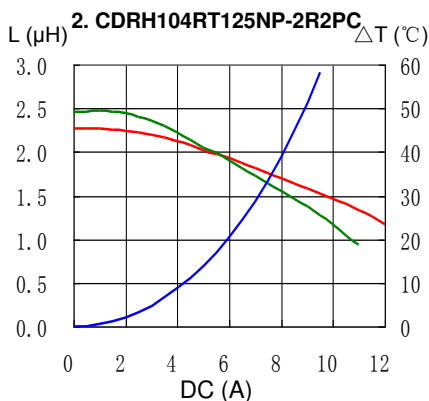
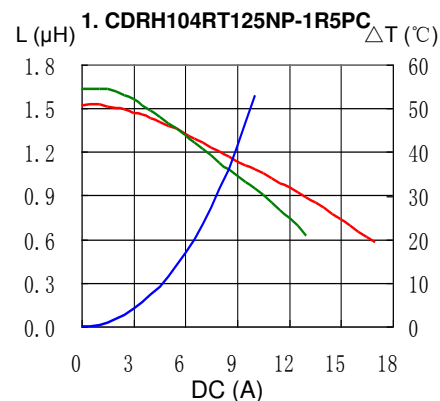
※ 4 Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

SMD Power Inductor CDRH104R/T125

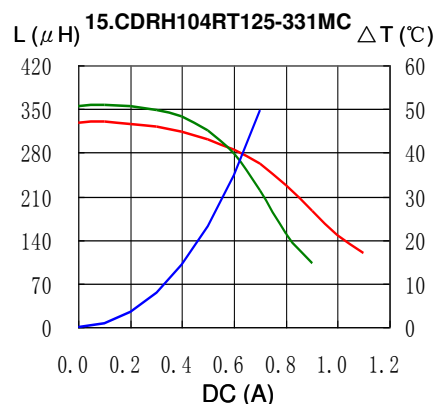
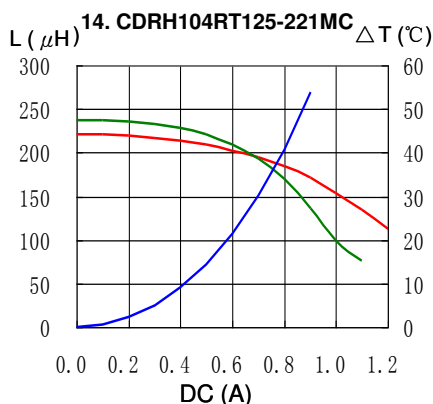
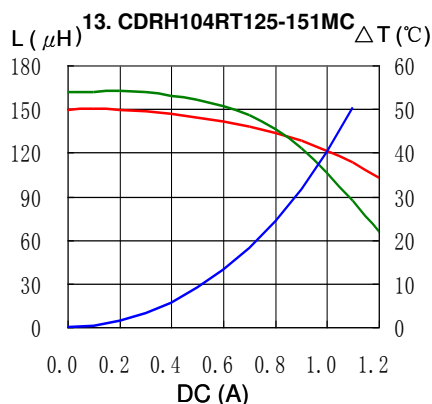


Saturation Current & Temperature Rise Graph

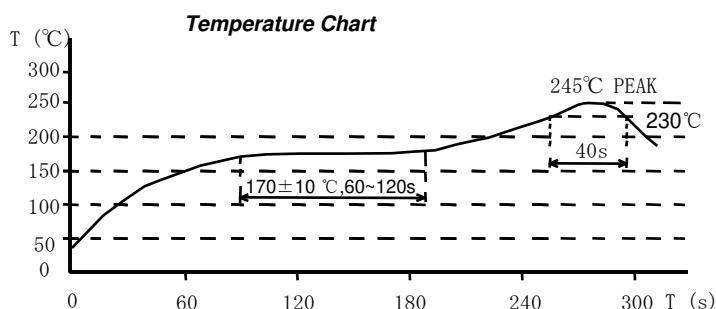
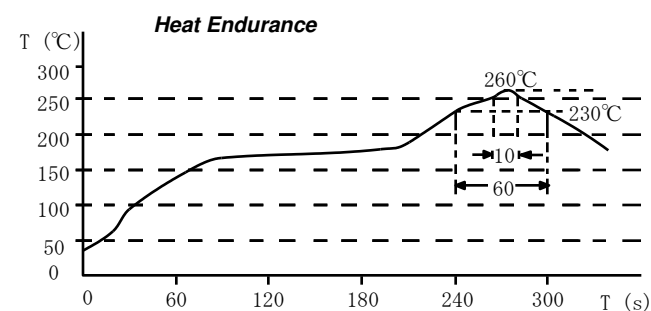
— L (20°C) — L (125°C) — ΔT



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Solder Reflow Condition



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