

# SMD Power Inductor

## CD43/T125



### Description

- Ferrite drum core construction
- Magnetically unshielded
- LxWxH: 4.8x4.3x3.5mm Max.
- Product weight :165mg (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance
- Qualified AEC-Q200



### Description

- Operating Temperature: -40°C~+125°C (including self-heating)
- Storage temperature range: -40°C~+125°C
- Solder reflow temperature: 260°C peak

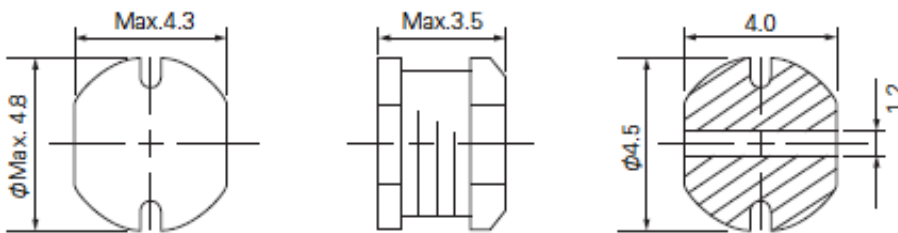
### Packaging

- Carrier tape and reel packaging.
- 12.9" diameter reel
- 1,500pcs per reel

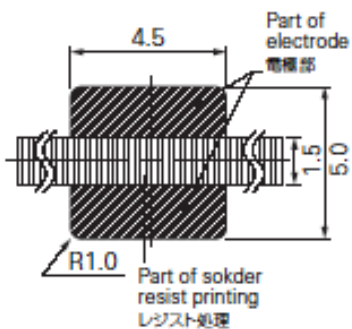
### Applications

- ECU, DC/DC converter

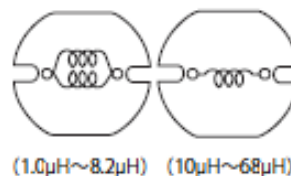
### Dimension [mm]



### Reference Land pattern [mm]



### Connection



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### Electrical Characteristics

Part No.	Inductance ( $\mu$ H) ※1	D.C.R (m $\Omega$ ) TYP.	Saturation Current (A) at 20°C TYP. ※2	Temperature Rise Current (A) TYP. ※3
CD43T125NP -1R0MC	1.0 $\pm$ 30%	24.0	6.50	3.50
CD43T125NP -1R4MC	1.4 $\pm$ 30%	27.6	6.00	3.30
CD43T125NP -1R8MC	1.8 $\pm$ 30%	32.0	5.50	3.00
CD43T125NP -2R2MC	2.2 $\pm$ 30%	36.5	5.00	2.80
CD43T125NP -2R7MC	2.7 $\pm$ 30%	40.7	4.50	2.70
CD43T125NP -3R3MC	3.3 $\pm$ 30%	45.2	4.00	2.50
CD43T125NP -3R9MC	3.9 $\pm$ 20%	62.3	3.80	2.30
CD43T125NP -4R7MC	4.7 $\pm$ 20%	73.5	3.20	2.20
CD43T125NP -5R6MC	5.6 $\pm$ 20%	80.2	3.00	2.00
CD43T125NP -6R8MC	6.8 $\pm$ 20%	92.4	2.60	1.90
CD43T125NP -8R2MC	8.2 $\pm$ 20%	106	2.50	1.70
CD43T125NP -100MC	10 $\pm$ 20%	126	1.60	1.50
CD43T125NP -120MC	12 $\pm$ 20%	140	1.30	1.45
CD43T125NP -150MC	15 $\pm$ 20%	163	1.20	1.40
CD43T125NP -180MC	18 $\pm$ 20%	221	1.00	1.20
CD43T125NP -220MC	22 $\pm$ 20%	251	0.90	1.10
CD43T125NP -270MC	27 $\pm$ 20%	330	0.80	0.95
CD43T125NP -330KC	33 $\pm$ 20%	379	0.70	0.90
CD43T125NP -390KC	39 $\pm$ 20%	419	0.65	0.80
CD43T125NP -470KC	47 $\pm$ 20%	587	0.60	0.70
CD43T125NP -560KC	56 $\pm$ 20%	651	0.50	0.65
CD43T125NP -680KC	68 $\pm$ 20%	736	0.45	0.60

- ※ Measuring frequency inductance : 7.96MHz(1.0 $\mu$  H - 8.2 $\mu$  H), 2.52MHz (10 $\mu$  H - 68 $\mu$  H)
- ※ Saturation current: DC current which becomes inductance value drop by 10% from the nominal value.
- ※ Temperature rise current: The value of D.C. current when the temperature of coil becomes  $\Delta T=40^{\circ}C(T_a=20^{\circ}C)$ .

Please note that when using the product for automotive while applying current with audio-frequency (AF) signals may result in audible noises due to magnetostriction. Also, in order to avoid noise problem, operating with Non-AF signals would be recommended. The noise may amplify depending on the coil mount area on the PCB.

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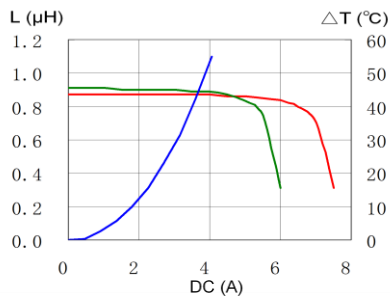
# SMD Power Inductor CD43/T125



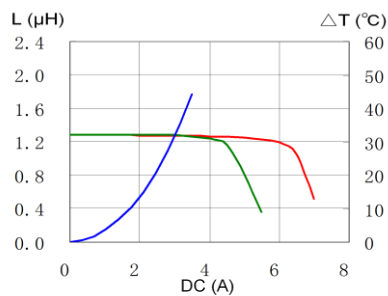
## Saturation Current & Temperature Rise Graph

— L (25°C)   
 — L (150°C)   
 —  $\Delta T$

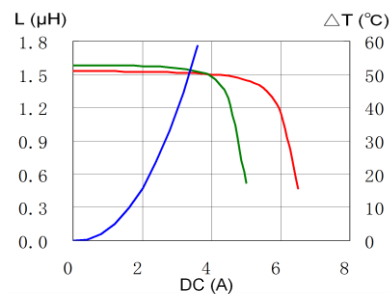
CD43T125NP-1R0MC



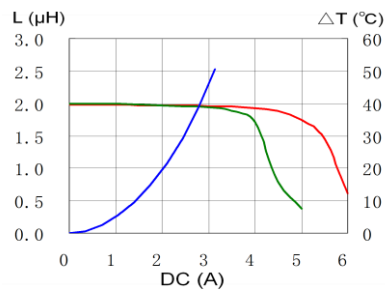
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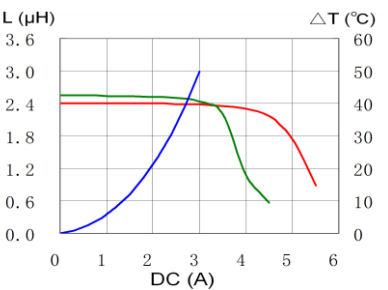
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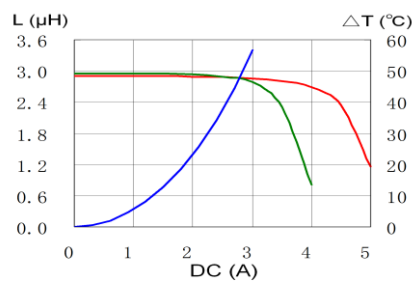
CD43T125NP-2R2MC-



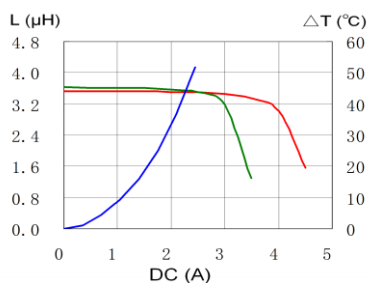
CD43T125NP-2R7MC



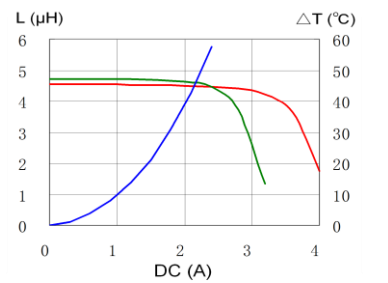
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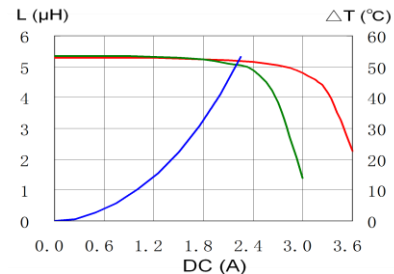
CD43T125NP-3R9MC



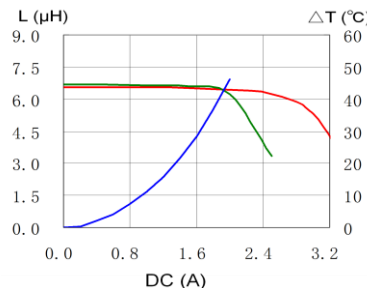
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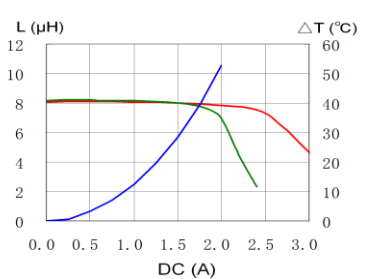
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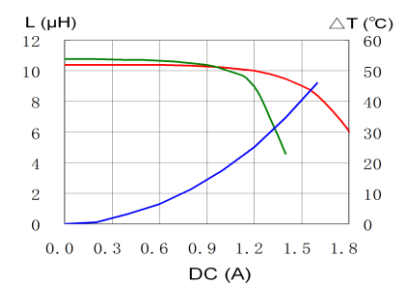
CD43T125NP-6R8MC



CD43T125NP-8R2MC



CD43T125NP100MC

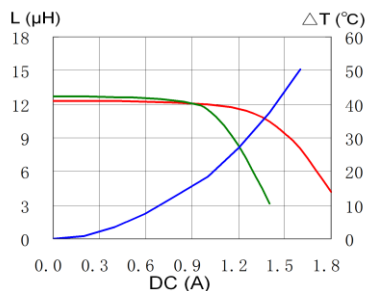


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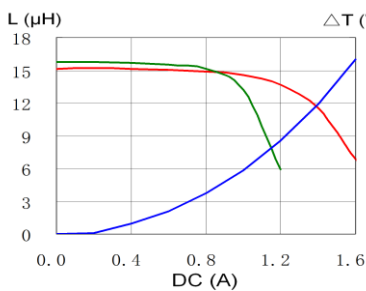
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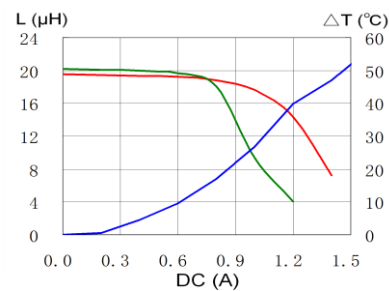
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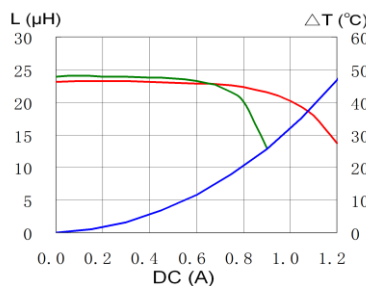
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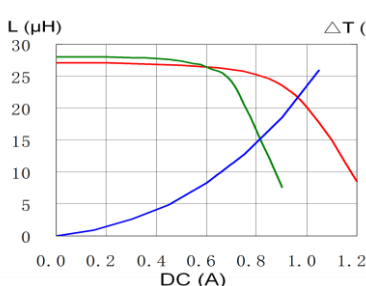
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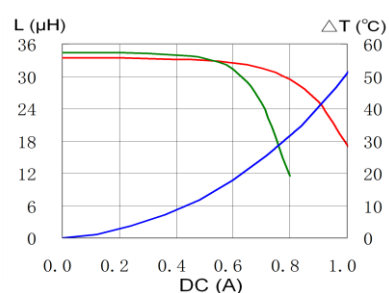
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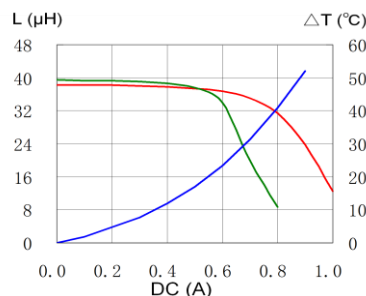
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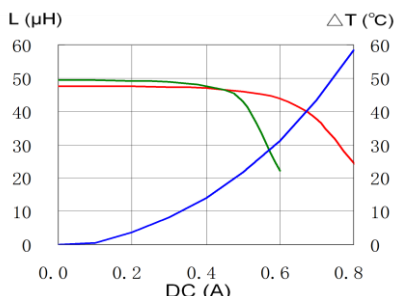
CD43T125NP-330KC



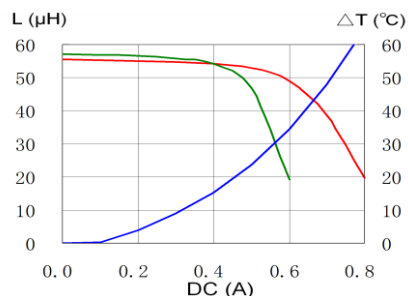
CD43T125NP-390KC



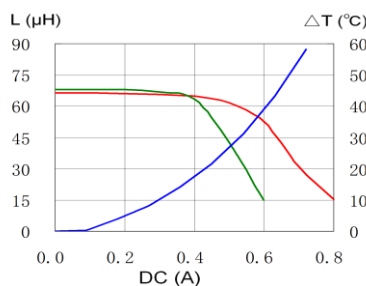
CD43T125NP-470KC



CD43T125NP-560KC



CD43T125NP-680KC



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