

CD43T125NP-6R8MC Datasheet



DiGi Electronics Part Number	CD43T125NP-6R8MC-DG
Manufacturer	Sumida America Components Inc.
Manufacturer Product Number	CD43T125NP-6R8MC
Description	FIXED IND 6.8UH 1.43A 131MOHM SM
Detailed Description	6.8 μ H Unshielded Inductor 1.43 A 131mOhm Max Nonstandard

<https://www.DiGi-Electronics.com>



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

CD43T125NP-6R8MC

Series:

CD43/T125

Type:

-

Inductance:

6.8 μ H

Current Rating (Amps):

1.43 A

Shielding:

Unshielded

Q @ Freq:

-

Ratings:

-

Inductance Frequency - Test:

7.96 MHz

Mounting Type:

Surface Mount

Supplier Device Package:

-

Height - Seated (Max):

0.138" (3.50mm)

Manufacturer:

Sumida America Components Inc.

Product Status:

Active

Material - Core:

Ferrite

Tolerance:

\pm 20%

Current - Saturation (Isat):

2.1A

DC Resistance (DCR):

131mOhm Max

Frequency - Self Resonant:

-

Operating Temperature:

-40°C ~ 125°C

Features:

-

Package / Case:

Nonstandard

Size / Dimension:

0.189" L x 0.169" W (4.80mm x 4.30mm)

Environmental & Export classification

RoHS Status:

RoHS Compliant

ECCN:

EAR99

Moisture Sensitivity Level (MSL):

1 (Unlimited)

HTSUS:

8504.50.8000

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



Environmental Data

- Operating Temperature: -40°C to +125°C (including self-heating)
- Storage temperature range: -40°C~+100°C

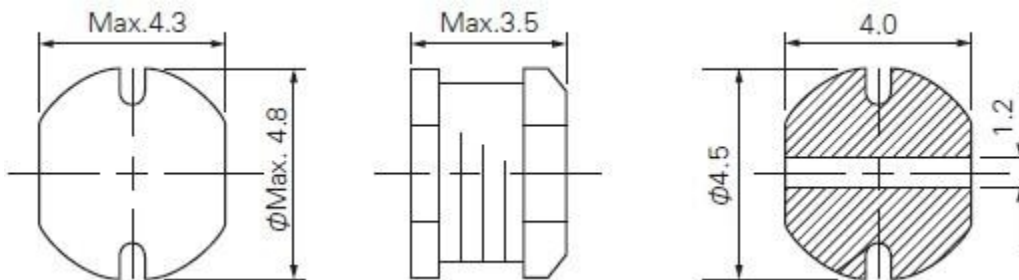
Packaging

- Carrier tape and reel packaging

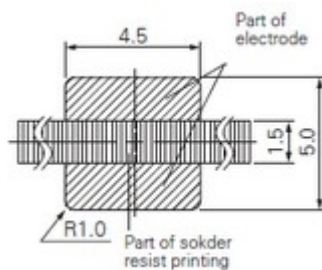
Applications

- High temp and high reliability automotive applications

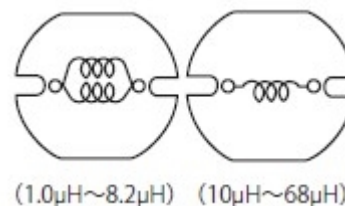
Dimension - [mm]



Recommended Land pattern - [mm]



Wire Connection



SMD Power Inductor

CD43/T125



Recommended Type

Electrical Characteristics

Part Number	Inductance [Within] (μ H) ※1	D.C.R. at 20°C Max.(Typ.) (m Ω)	Saturation Current (A) Max.(Typ.) ※2	Temperature Rise Current (A) Max.(Typ.) ※3
CD43T125NP-1R0MC	1.00 \pm 20%	48.70 (24.00)	5.20 (6.50)	2.70 (3.50)
CD43T125NP-1R4MC	1.40 \pm 20%	56.20 (27.60)	4.80 (6.00)	2.50 (3.30)
CD43T125NP-1R8MC	1.80 \pm 20%	63.70 (32.00)	4.40 (5.50)	2.33 (3.00)
CD43T125NP-2R2MC	2.20 \pm 20%	71.20 (36.50)	4.00 (5.00)	2.25 (2.80)
CD43T125NP-2R7MC	2.70 \pm 20%	78.70 (40.70)	3.60 (4.50)	2.16 (2.70)
CD43T125NP-3R3MC	3.30 \pm 20%	86.20 (45.20)	3.20 (4.00)	2.00 (2.50)
CD43T125NP-3R9MC	3.90 \pm 20%	93.70 (62.30)	3.00 (3.80)	1.84 (2.30)
CD43T125NP-4R7MC	4.70 \pm 20%	109 (73.50)	2.60 (3.20)	1.62 (2.20)
CD43T125NP-5R6MC	5.60 \pm 20%	126 (80.20)	2.40 (3.00)	1.48 (2.00)
CD43T125NP-6R8MC	6.80 \pm 20%	131 (92.40)	2.10 (2.60)	1.43 (1.90)
CD43T125NP-8R2MC	8.20 \pm 20%	146 (106)	2.00 (2.50)	1.37 (1.70)
CD43T125NP-100MC	10.00 \pm 20%	182 (126)	1.04 (1.60)	1.20 (1.50)
CD43T125NP-120MC	12.00 \pm 20%	210 (140)	0.97 (1.30)	1.10 (1.45)
CD43T125NP-150MC	15.00 \pm 20%	235 (163)	0.85 (1.20)	1.00 (1.40)
CD43T125NP-180MC	18.00 \pm 20%	338 (221)	0.74 (1.00)	0.90 (1.20)
CD43T125NP-220MC	22.00 \pm 20%	378 (251)	0.68 (0.90)	0.80 (1.10)
CD43T125NP-270MC	27.00 \pm 20%	522 (330)	0.62 (0.80)	0.70 (0.95)
CD43T125NP-330KC	33.00 \pm 20%	540 (379)	0.56 (0.70)	0.65 (0.90)
CD43T125NP-390KC	39.00 \pm 20%	587 (419)	0.52 (0.65)	0.60 (0.80)
CD43T125NP-470KC	47.00 \pm 20%	844 (587)	0.44 (0.60)	0.55 (0.70)
CD43T125NP-560KC	56.00 \pm 20%	937 (651)	0.42 (0.50)	0.50 (0.65)
CD43T125NP-680KC	68.00 \pm 20%	1120 (736)	0.37 (0.45)	0.45 (0.60)

※1: Inductance measuring frequency: 1.0 μ H \sim 8.2 μ H, at 7.96 MHz. 10 μ H \sim 68 μ H, at 2.52 MHz.

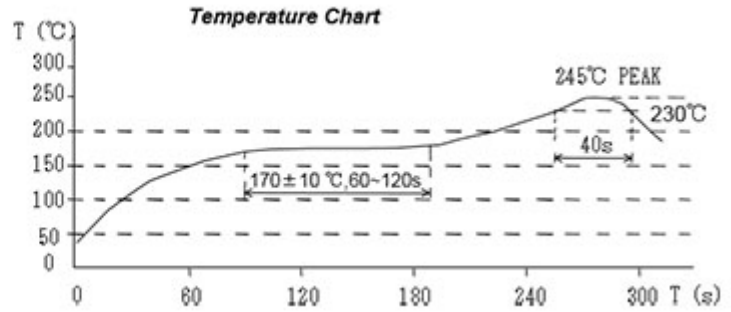
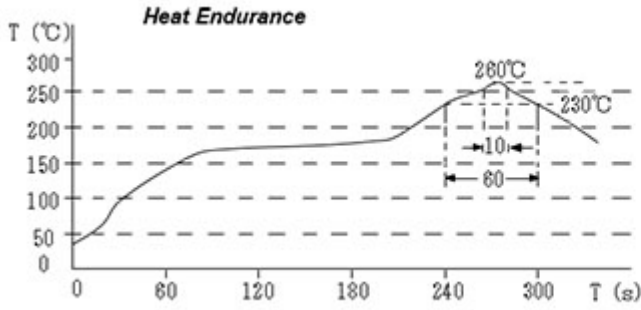
※2: Rated current: The DC current at which the inductance decreases to 90 % of its initial value or when $\Delta t=40^{\circ}\text{C}$, whichever is lower ($T_a=20^{\circ}\text{C}$).

SMD Power Inductor

CD43/T125



Solder Reflow Condition



SMD Power Inductor

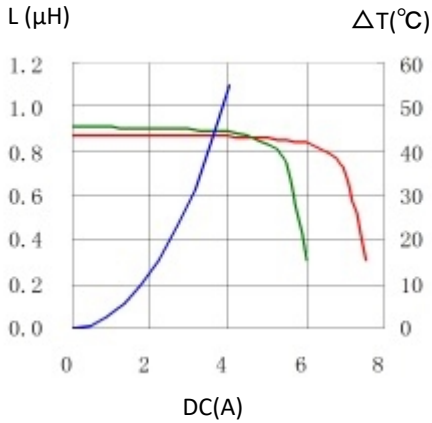
CD43/T125



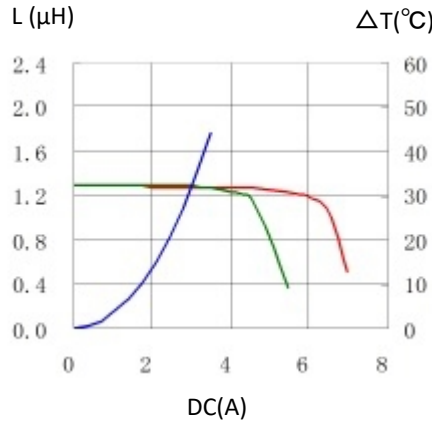
Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

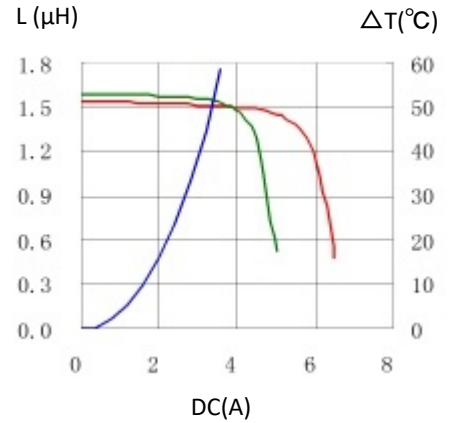
1. CD43T125NP-1R0MC



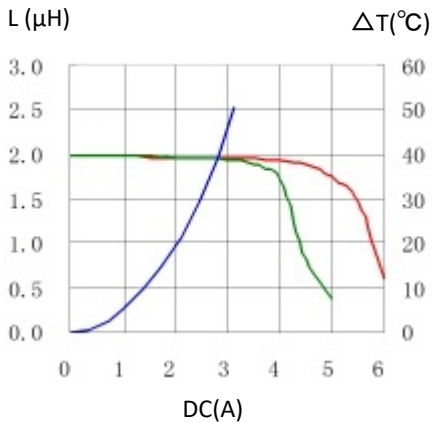
2. CD43T125NP-1R4MC



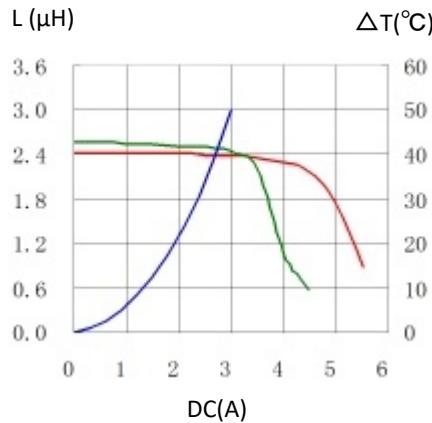
3. CD43T125NP-1R8MC



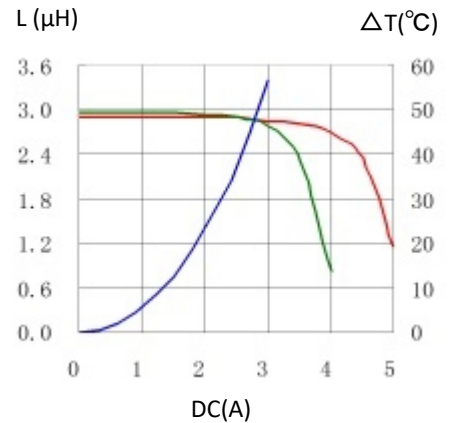
4. CD43T125NP-2R2MC



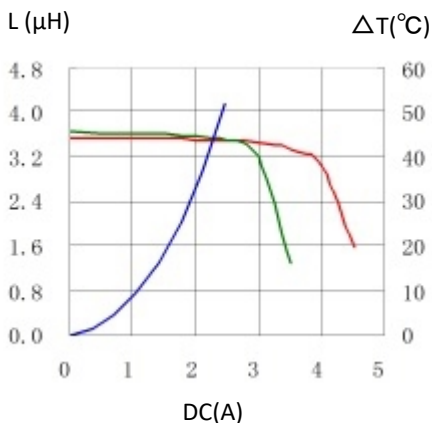
5. CD43T125NP-2R7MC



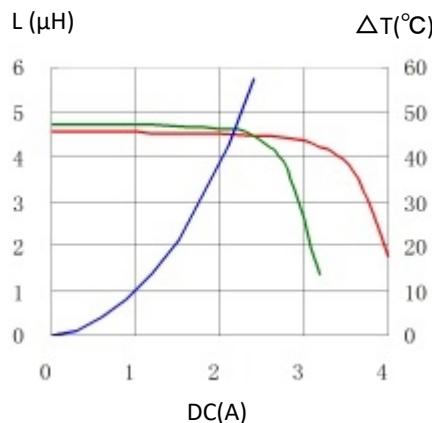
6. CD43T125NP-3R3MC



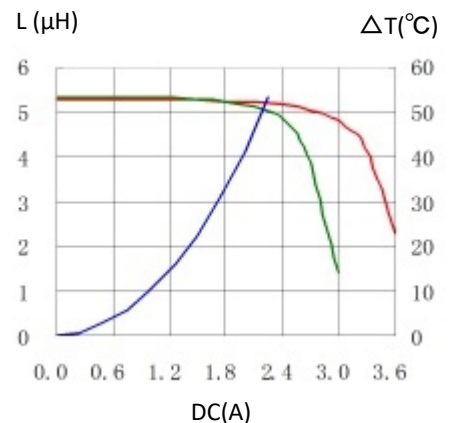
7. CD43T125NP-3R9MC



8. CD43T125NP-4R7MC



9. CD43T125NP-5R6MC



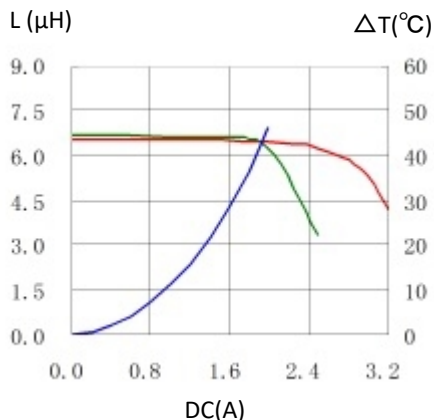
Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

SMD Power Inductor

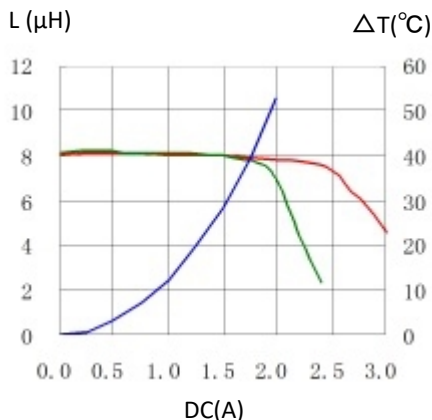
CD43/T125



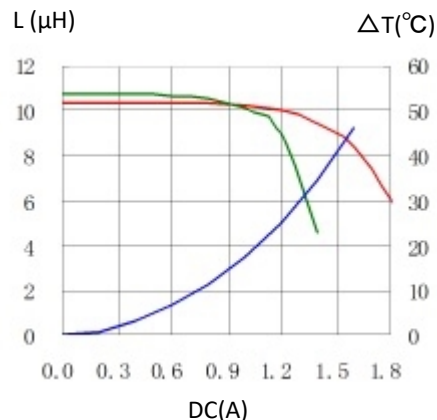
10. CD43T125NP-6R8MC



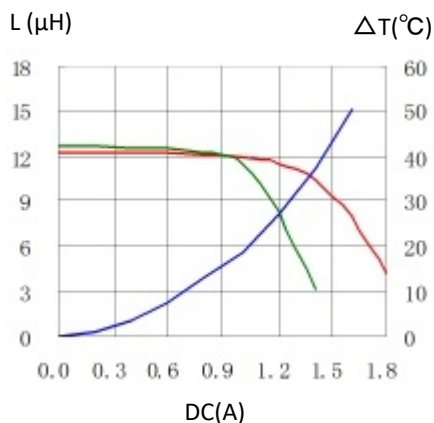
11. CD43T125NP-8R2MC



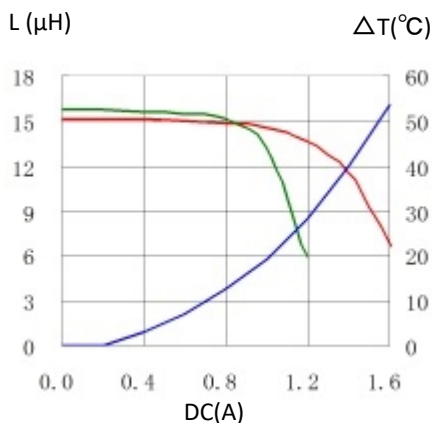
12. CD43T125NP-100MC



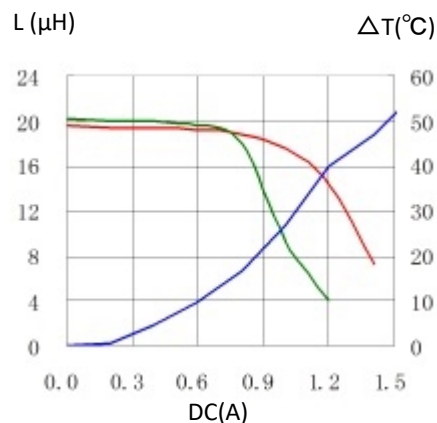
13. CD43T125NP-120MC



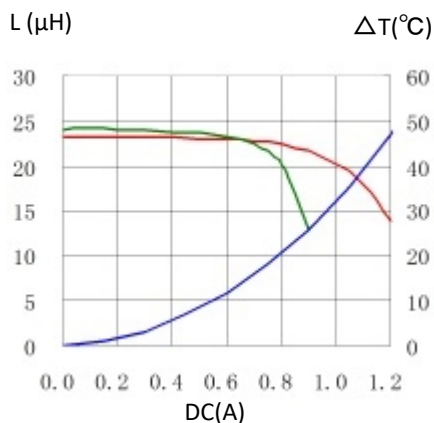
14. CD43T125NP-150MC



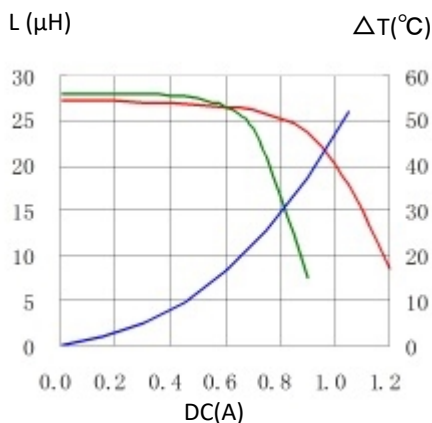
15. CD43T125NP-180MC



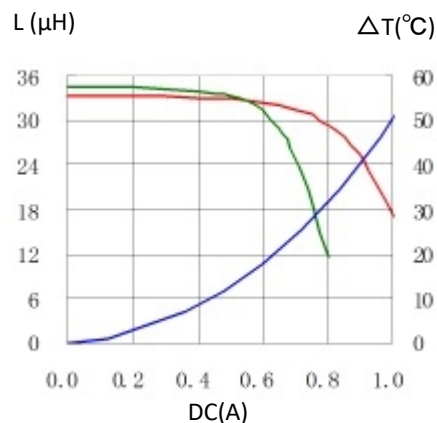
16. CD43T125NP-220MC



17. CD43T125NP-270MC



18. CD43T125NP-330KC

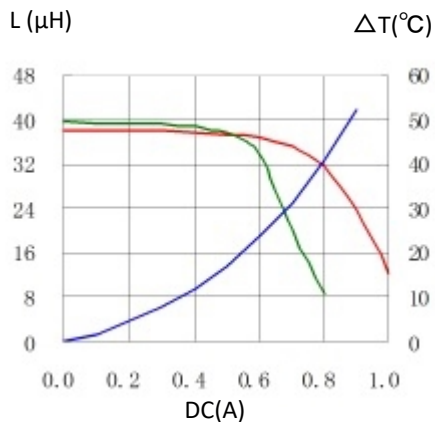


SMD Power Inductor

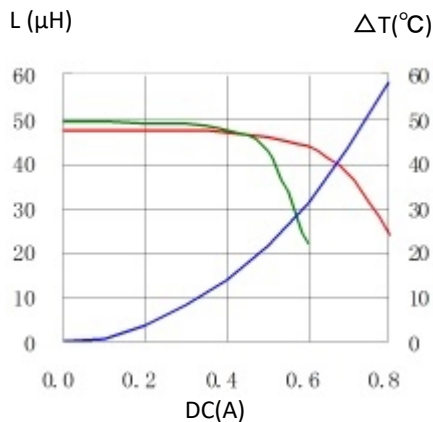
CD43/T125



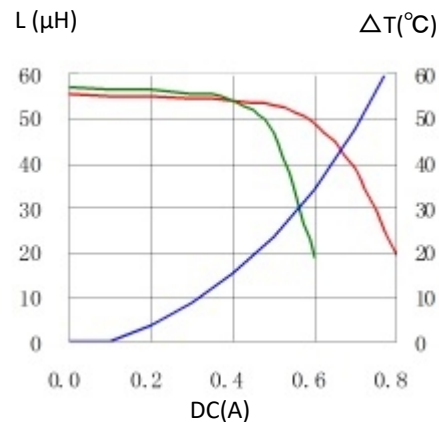
19. CD43T125NP-390KC



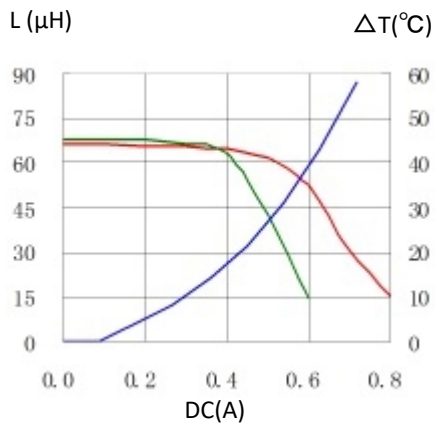
20. CD43T125NP-470KC



21. CD43T125NP-560KC



22. CD43T125NP-680KC



For sales office information, please [click here](#) to visit our website.

OUR CERTIFICATE

DiGi provide top-quality products and perfect service for customer worldwide through standardization, technological innovation and continuous improvement. DiGi through third-party certification, we strictly control the quality of products and services. Welcome your RFQ to

Email: Info@DiGi-Electronics.com



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.