

CDRH10D60BT150NP-2R0NC Datasheet



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

DiGi Electronics Part Number	CDRH10D60BT150NP-2R0NC-DG
Manufacturer	Sumida America Components Inc.
Manufacturer Product Number	CDRH10D60BT150NP-2R0NC
Description	FIXED IND 2UH 10.9A 7.1 MOHM SMD
Detailed Description	2 μ H Shielded Inductor 10.9 A 7.1mOhm Nonstandard



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:

CDRH10D60BT150NP-2R0NC

Series:

CDRH10D60B/T150

Type:

-

Inductance:

2 μ H

Current Rating (Amps):

10.9 A

Shielding:

Shielded

Q @ Freq:

-

Ratings:

AEC-Q200

Inductance Frequency - Test:

100 kHz

Mounting Type:

Surface Mount

Supplier Device Package:

-

Height - Seated (Max):

0.250" (6.35mm)

Manufacturer:

Sumida America Components Inc.

Product Status:

Active

Material - Core:

Ferrite

Tolerance:

\pm 30%

Current - Saturation (Isat):

13.6A

DC Resistance (DCR):

7.1mOhm

Frequency - Self Resonant:

-

Operating Temperature:

-55°C ~ 150°C

Features:

-

Package / Case:

Nonstandard

Size / Dimension:

0.406" L x 0.394" W (10.30mm x 10.00mm)

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

ECCN:

EAR99

Moisture Sensitivity Level (MSL):

1 (Unlimited)

HTSUS:

8504.50.8000



SMD Power Inductor

CDRH10D60B/T150



Description

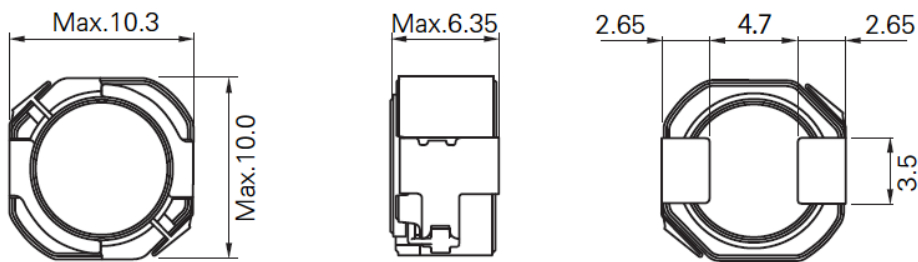
- Ferrite drum core construction
- Magnetically shielded
- Qualified AEC-Q200
- Operating Temperature: -55°C to +150°C (including self-heating)

Applications

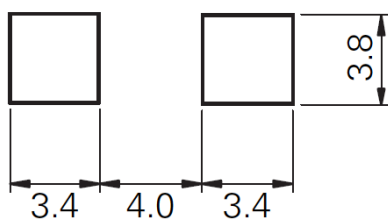
- LED Head light for Automobile
- ECU, DC/DC converter
- Automotive and other high temperature, high reliability application



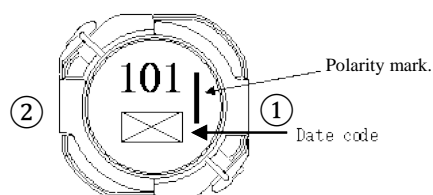
Dimension [mm]



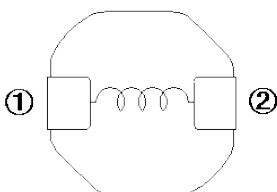
Reference Land pattern [mm]



Stamp Example



Connection (Bottom View)



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

CDRH10D60B/T150



Electrical Characteristics

Part No.	Inductance (μ H) ※1	D.C.R (m Ω) (\pm 30%)	Saturation Current (A) at 20°C TYP. ※2	Temperature Rise Current (A) TYP. ※3
CDRH10D60BT150NP -R80NC	0.8 \pm 30%	5.4	21.2	12.6
CDRH10D60BT150NP -1R3NC	1.3 \pm 30%	6.2	17.0	11.3
CDRH10D60BT150NP -2R0NC	2.0 \pm 30%	7.1	13.6	10.9
CDRH10D60BT150NP -2R7NC	2.7 \pm 30%	8.5	11.7	10.4
CDRH10D60BT150NP -4R7NC	4.7 \pm 30%	12.0	8.80	8.50
CDRH10D60BT150NP -6R8NC	6.8 \pm 30%	15.0	7.40	7.90
CDRH10D60BT150NP -100MC	10 \pm 20%	17.0	6.20	6.90
CDRH10D60BT150NP -150MC	15 \pm 20%	30.0	4.90	5.30
CDRH10D60BT150NP -220MC	22 \pm 20%	43.0	4.10	4.35
CDRH10D60BT150NP -330MC	33 \pm 20%	57.0	3.35	3.75
CDRH10D60BT150NP -470MC	47 \pm 20%	74.0	2.82	3.45
CDRH10D60BT150NP -680MC	68 \pm 20%	88.0	2.36	3.10
CDRH10D60BT150NP -101MC	100 \pm 20%	160	1.92	2.30
CDRH10D60BT150NP -151MC	150 \pm 20%	250	1.60	1.75
CDRH10D60BT150NP -221MC	220 \pm 20%	350	1.32	1.55
CDRH10D60BT150NP -331MC	330 \pm 20%	515	1.06	1.15
CDRH10D60BT150NP -471MC	470 \pm 20%	770	0.88	1.00

※ Measuring frequency inductance at 100kHz,1V.

※ Saturation current: DC current which becomes inductance value drop by 30% from the nominal value.

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

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.

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

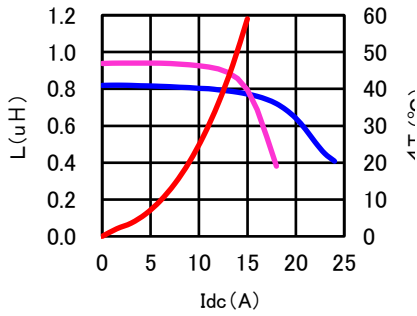


SMD Power Inductor CDRH10D60B/T150

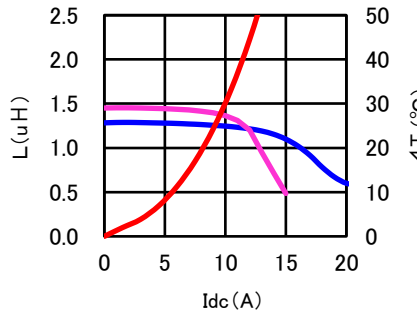


Saturation Current & Temperature Rise Graph — L (25°C) — L (150°C) — ΔT

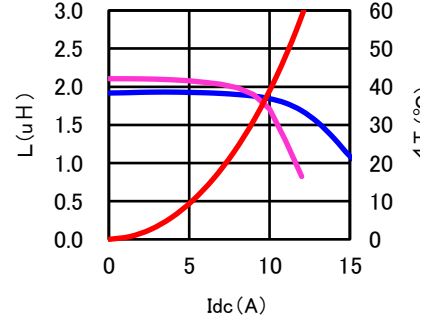
CDRH10D60BT150NP-R80NC



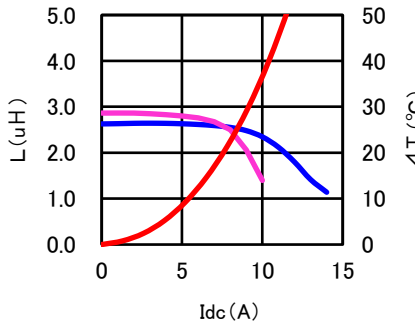
CDRH10D60BT150NP-1R3NC



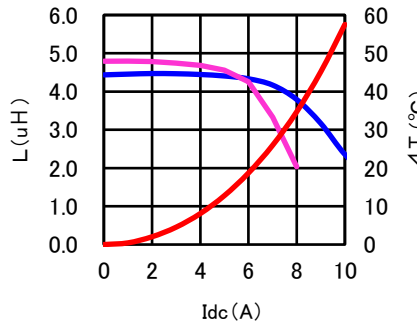
CDRH10D60BT150NP-2R0NC



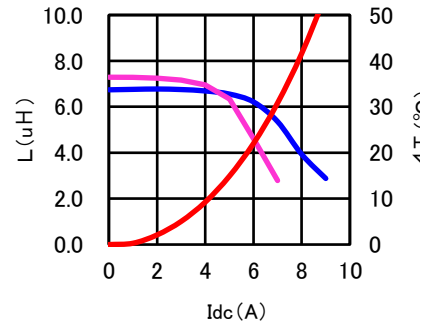
CDRH10D60BT150NP-2R7NC



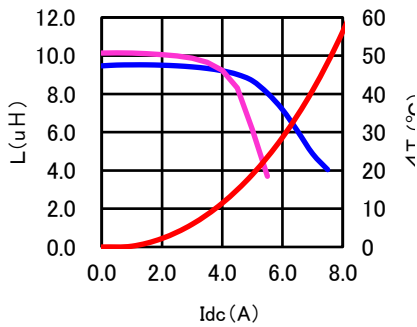
CDRH10D60BT150NP-4R7NC



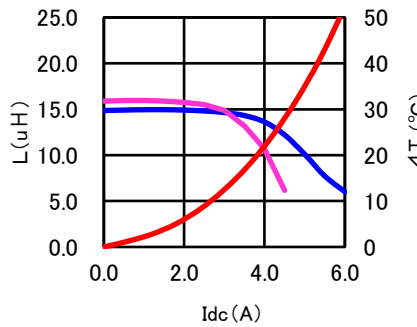
CDRH10D60BT150NP-6R8NC



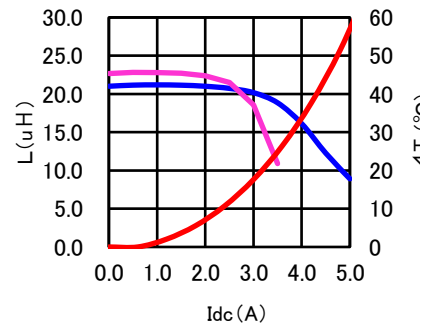
CDRH10D60BT150NP-100MC



CDRH10D60BT150NP-150MC



CDRH10D60BT150NP-220MC



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

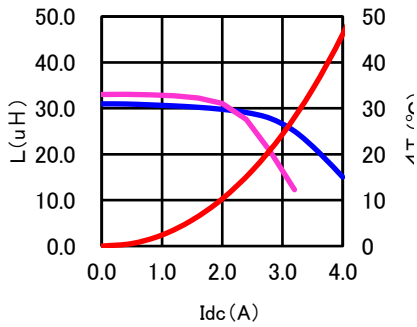


SMD Power Inductor CDRH10D60B/T150

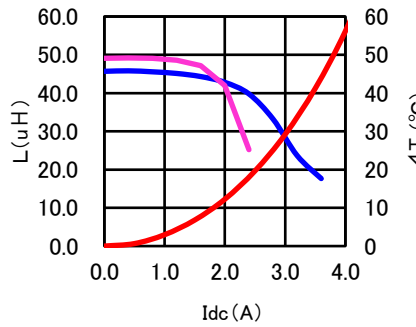


Saturation Current & Temperature Rise Graph — L (25°C) — L (150°C) — ΔT

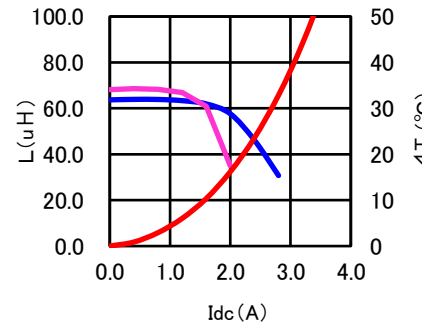
CDRH10D60BT150NP-330MC



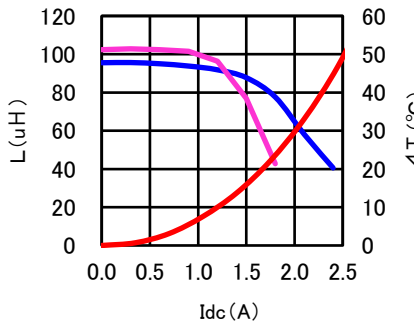
CDRH10D60BT150NP-470MC



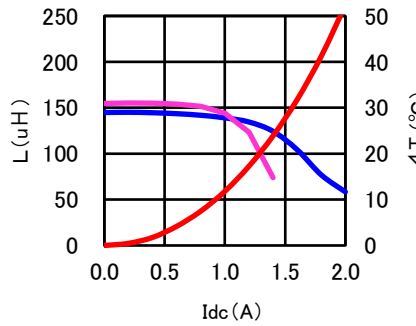
CDRH10D60BT150NP-680MC



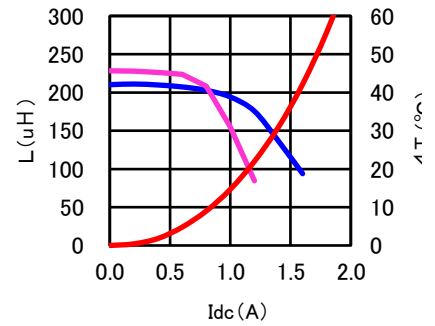
CDRH10D60BT150NP-101MC



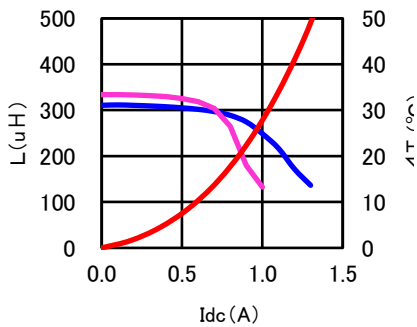
CDRH10D60BT150NP-151MC



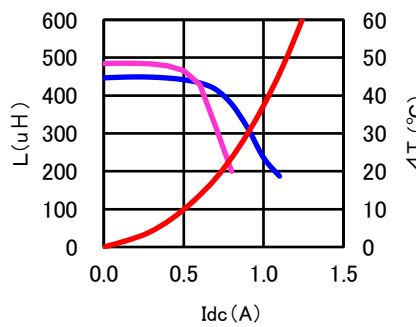
CDRH10D60BT150NP-221MC



CDRH10D60BT150NP-331MC



CDRH10D60BT150NP-471MC



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

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

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 stricly 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.