

# CDRH10D60BT150NP-470MC Datasheet

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DiGi Electronics Part Number	CDRH10D60BT150NP-470MC-DG
Manufacturer	<a href="#">Sumida America Components Inc.</a>
Manufacturer Product Number	CDRH10D60BT150NP-470MC
Description	FIXED IND 47UH 2.6A 74 MOHM SMD
Detailed Description	47 $\mu$ H Shielded Inductor 2.6 A 74mOhm Nonstandard



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## Purchase and inquiry

**Manufacturer Product Number:**

CDRH10D60BT150NP-470MC

**Series:**

CDRH10D60B/T150

**Type:**

-

**Inductance:**47  $\mu$ H**Current Rating (Amps):**

2.6 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:** $\pm$ 20%**Current - Saturation (Isat):**

2.82A

**DC Resistance (DCR):**

74mOhm

**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

**REACH Status:**

Vendor Undefined

**HTSUS:**

8504.50.8000

**Moisture Sensitivity Level (MSL):**

1 (Unlimited)

**ECCN:**

EAR99



# SMD Power Inductor

## CDRH10D60B/T150



### Description

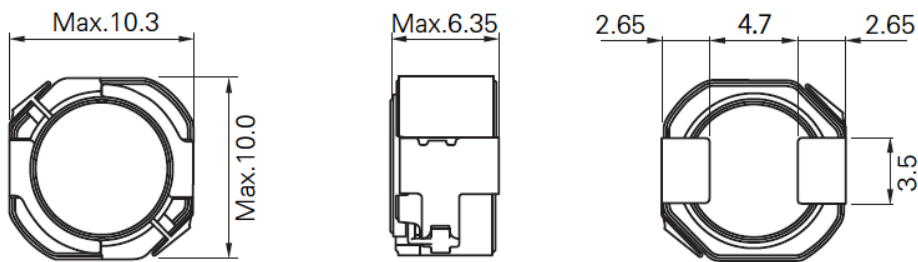
- Ferrite drum core construction
- Magnetically shielded
- Qualified AEC-Q200
- Operating Temperature: -55°C to +150°C (including self-heating)



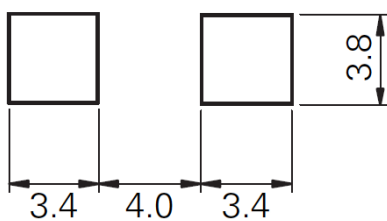
### Applications

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

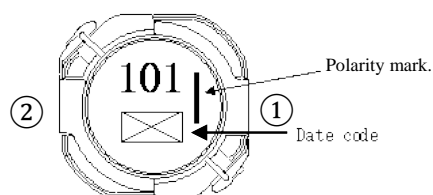
### Dimension [mm]



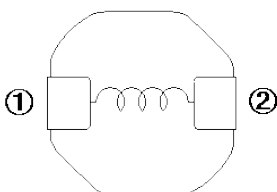
### Reference Land pattern [mm]



### 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 ( $\mu\text{H}$ ) ※1	D.C.R (m $\Omega$ ) ( $\pm 30\%$ )	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.

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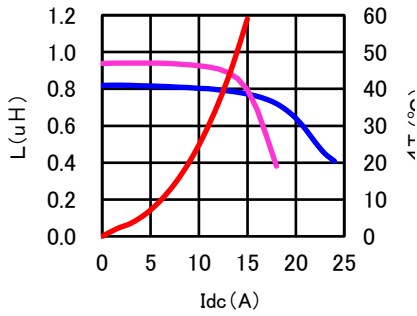
# SMD Power Inductor

## CDRH10D60B/T150

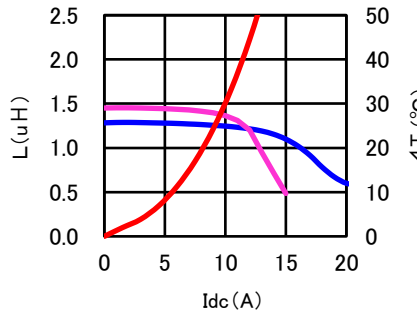


Saturation Current & Temperature Rise Graph — L (25°C) — L (150°C) —  $\Delta T$

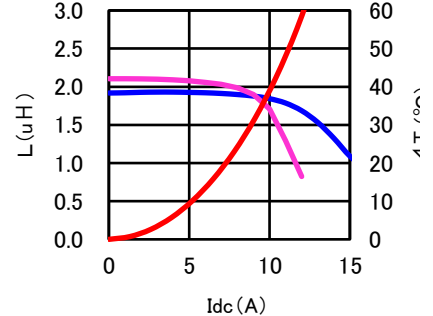
CDRH10D60BT150NP-R80NC



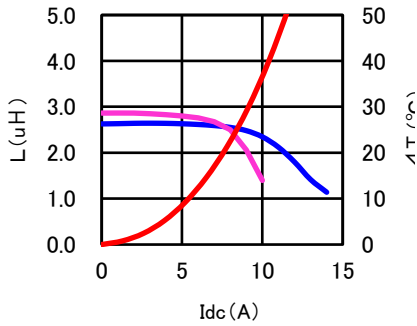
CDRH10D60BT150NP-1R3NC



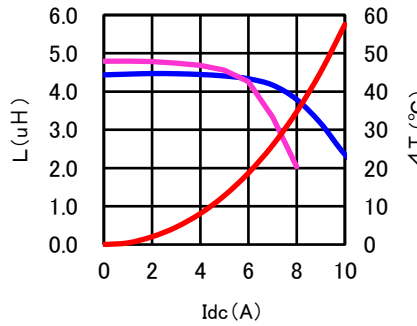
CDRH10D60BT150NP-2R0NC



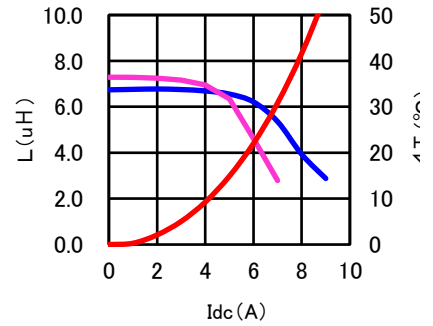
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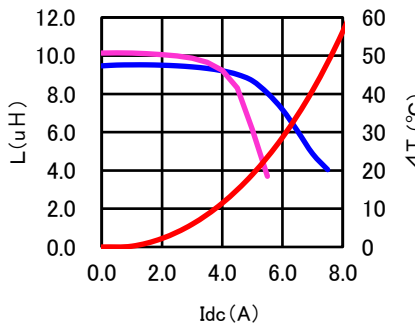
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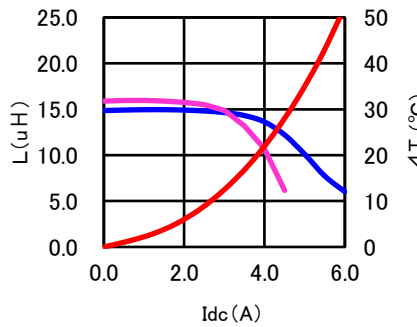
CDRH10D60BT150NP-6R8NC



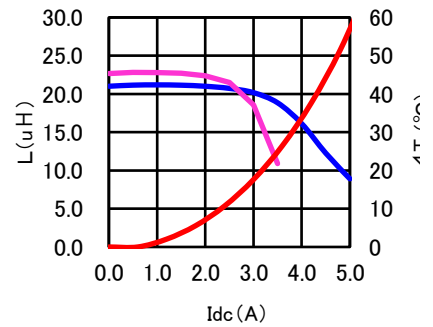
CDRH10D60BT150NP-100MC



CDRH10D60BT150NP-150MC



CDRH10D60BT150NP-220MC



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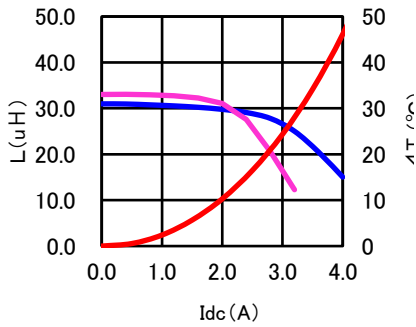


# SMD Power Inductor CDRH10D60B/T150

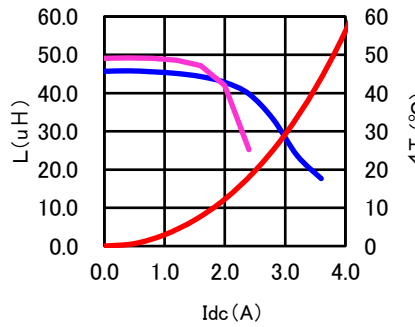


Saturation Current & Temperature Rise Graph — L (25°C) — L (150°C) —  $\Delta T$

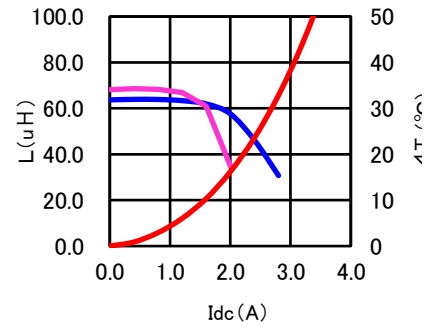
CDRH10D60BT150NP-330MC



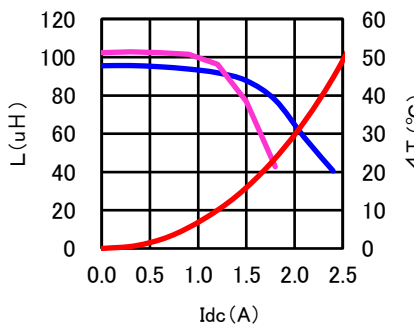
CDRH10D60BT150NP-470MC



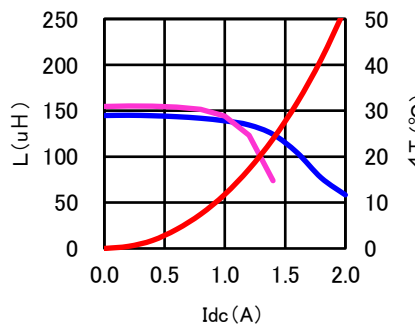
CDRH10D60BT150NP-680MC



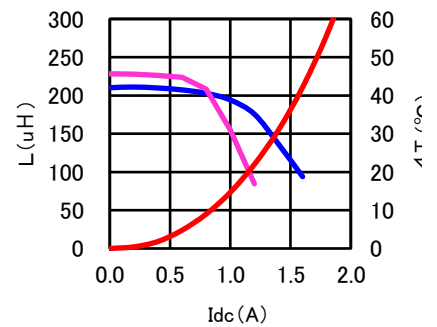
CDRH10D60BT150NP-101MC



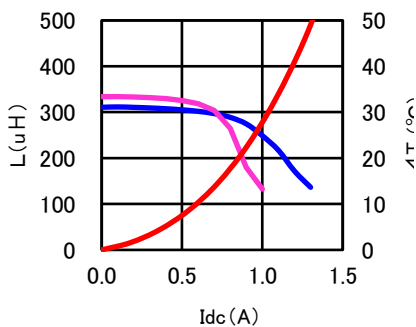
CDRH10D60BT150NP-151MC



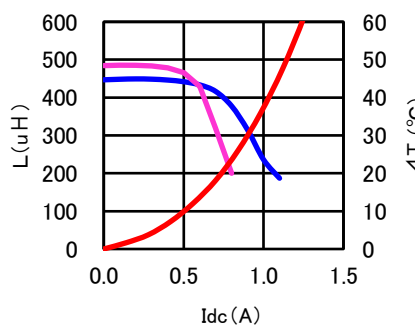
CDRH10D60BT150NP-221MC



CDRH10D60BT150NP-331MC



CDRH10D60BT150NP-471MC



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