CDRH50D20T150NP-150MC Datasheet

DiGi Electronics Part Number	CDRH50D20T150NP-150MC-DG
Manufacturer	Sumida America Components Inc.
Manufacturer Product Number	CDRH50D20T150NP-150MC
Description	INDUCTOR
Detailed Description	15 µH Shielded Drum Core Inductor 1.08 A 240mOhm Max Nonstandard

https://www.DiGi-Electronics.com

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RFQ Email: Info@DiGi-Electronics.com

Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
CDRH50D20T150NP-150MC	Sumida America Components Inc.
Series:	Product Status:
CDRH50D20/T150	Active
Type:	Material - Core:
Drum Core	Ferrite
Inductance:	Tolerance:
15 µH	±20%
Current Rating (Amps):	Current - Saturation (Isat):
1.08 A	1.15A
Shielding:	DC Resistance (DCR):
Shielded	240mOhm Max
Q @ Freq:	Frequency - Self Resonant:
-	-
Ratings:	Operating Temperature:
AEC-Q200	-40°C ~ 150°C
Inductance Frequency - Test:	Features:
100 kHz	-
Mounting Type:	Package / Case:
Surface Mount	Nonstandard
Supplier Device Package:	Size / Dimension:
-	0.205" L x 0.205" W (5.20mm x 5.20mm)
Height - Seated (Max):	
0.087" (2.20mm)	

Environmental & Export classification

Moisture Sensitivity Level (MSL):
1 (Unlimited)

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RoHS

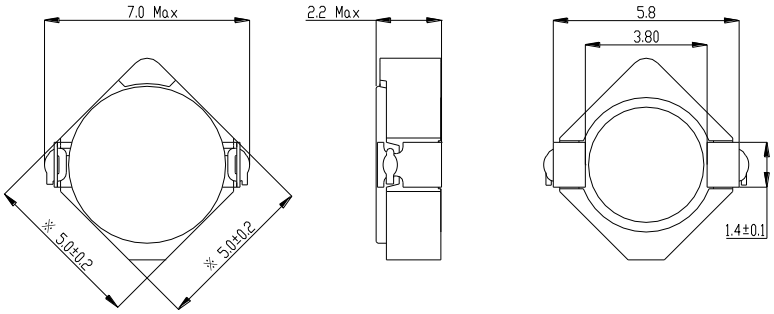
Description
- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 5.2 × 5.2 × 2.2 mm Max.
- Product weight: 0.2g (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Qualification to AEC-Q200.

Environmental Data
- Operating temperature range: -40℃～+150℃
- (including coil's self temperature rise)
- Storage temperature range: -40℃～+150℃
- Solder reflow temperature: 260 ℃ peak.

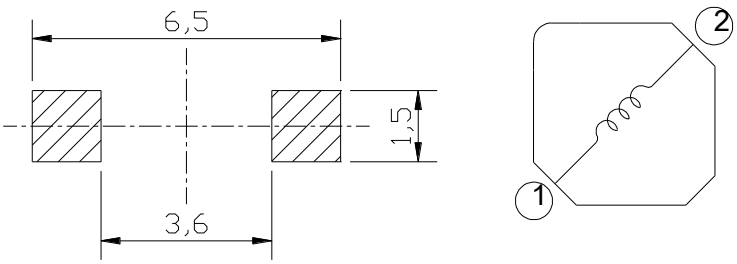
Packaging
- Carrier tape and reel packaging

Applications
- Automotive and other high temperature, high reliability application.

Dimension - [mm]



Land pattern and Schematics - [mm]



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Electrical Characteristics

Part No.	Stamp	Inductance [Within] [μH] ※1	D.C.R. (mΩ) [Max.] (at 20℃)	Saturation Current (A) (at 20℃) ※2	Temperature Rise Current (A) typ. ※3
CDRH50D20T150NP-1R2NC	1R2	1.2±30%	30 (24)	4.00	3.40
CDRH50D20T150NP-1R8NC	1R8	1.8±30%	36 (29)	3.40	3.12
CDRH50D20T150NP-2R2NC	2R2	2.2±30%	40 (33)	3.06	2.88
CDRH50D20T150NP-3R3NC	3R3	3.3±30%	50 (41)	2.51	2.52
CDRH50D20T150NP-4R7NC	4R7	4.7±30%	74 (62)	2.04	2.08
CDRH50D20T150NP-6R8NC	6R8	6.8±30%	110 (91)	1.73	1.75
CDRH50D20T150NP-100MC	100	10.0±20%	144 (120)	1.41	1.51
CDRH50D20T150NP-150MC	150	15.0±20%	240 (200)	1.15	1.08
CDRH50D20T150NP-220MC	220	22.0±20%	320 (265)	0.97	0.98
CDRH50D20T150NP-330MC	330	33.0±20%	440 (365)	0.78	0.83
CDRH50D20T150NP-470MC	470	47.0±20%	690 (575)	0.66	0.61
CDRH50D20T150NP-101MC	101	100±20%	1280 (1100)	0.45	0.52

※1. Measuring condition: at 100 kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 70% of it's nominal value.

※3. Temperature rise current: The actual value of DC current when the top surface temperature of test sample rise is △T ＝40℃(Ta＝25℃).

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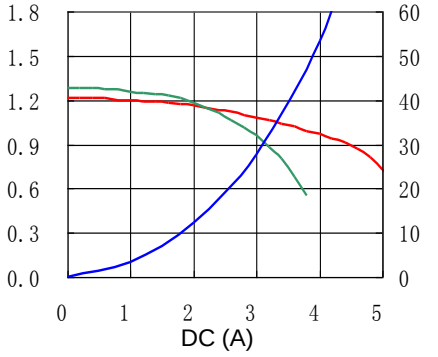
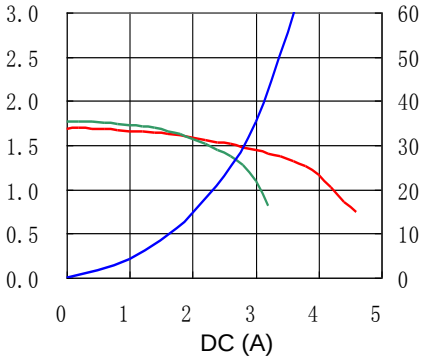
Saturation Current & Temperature Rise Graph

L (25℃) L (150℃) △T

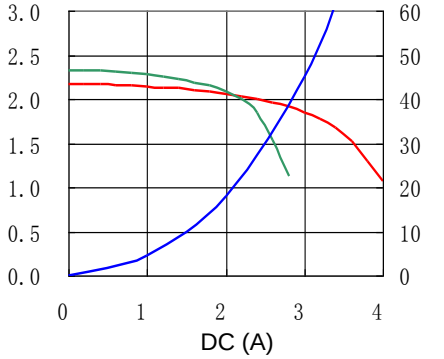
1. CDRH50D20T150NP-1R2NC



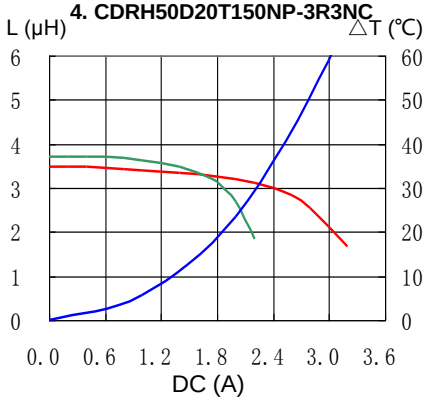
2. CDRH50D20T150NP-1R8NC



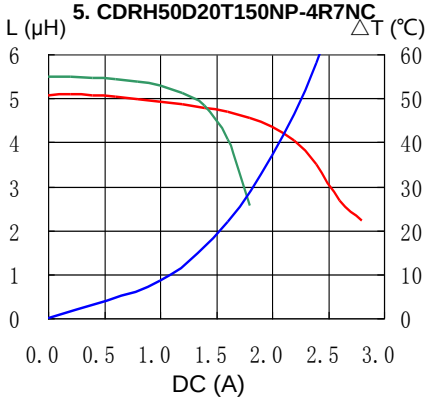
3. CDRH50D20T150NP-2R2NC



4. CDRH50D20T150NP-3R3NC



5. CDRH50D20T150NP-4R7NC



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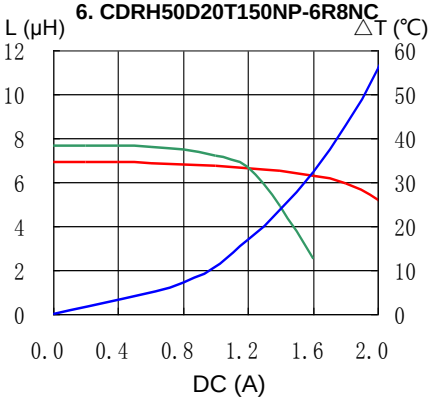

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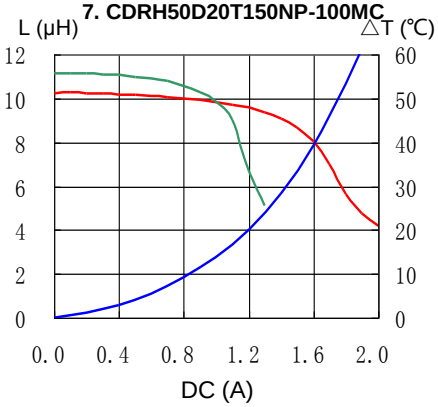

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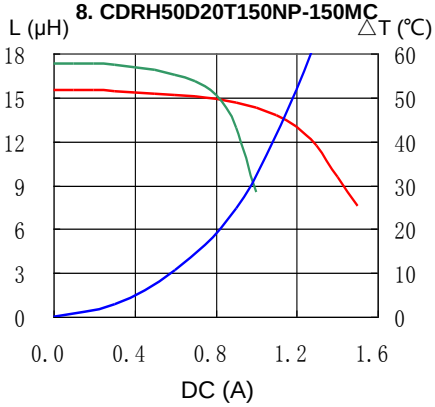

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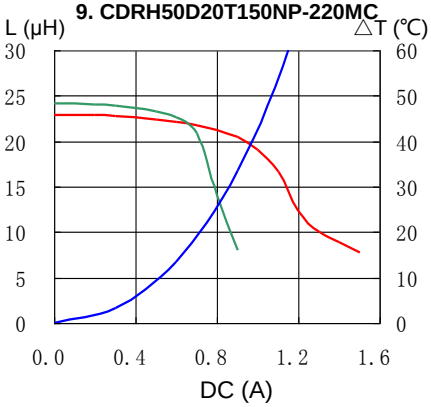
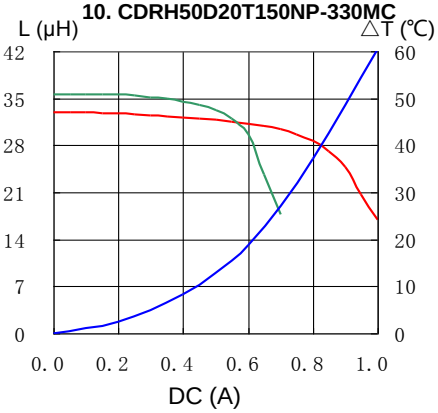


10. CDRH50D20T150NP-330MC



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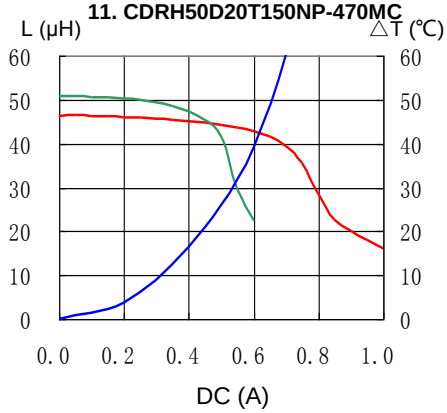
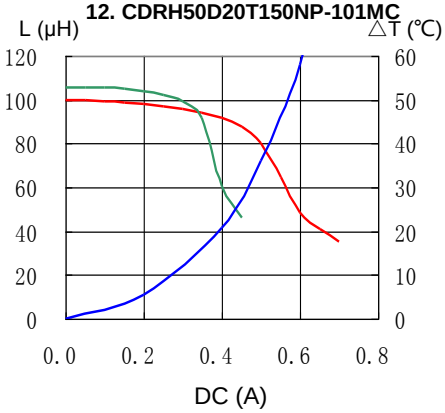


12. CDRH50D20T150NP-101MC



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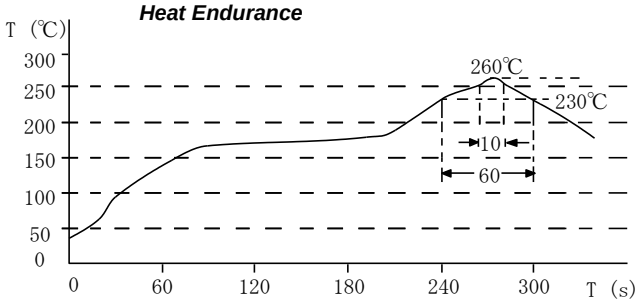
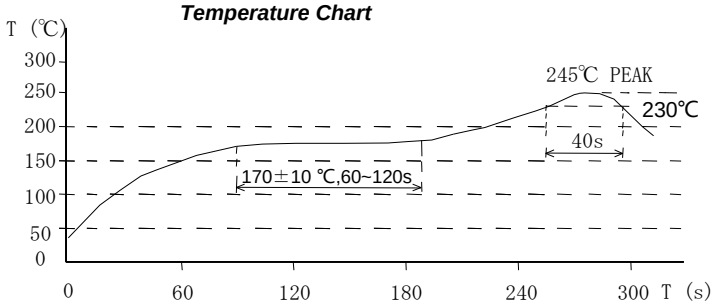
Solder Reflow Condition

Heat Endurance



Temperature Chart



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