CDRH38D16RLDNP-470MC Datasheet

DiGi Electronics Part Number	CDRH38D16RLDNP-470MC-DG
Manufacturer	Sumida America Components Inc.
Manufacturer Product Number	CDRH38D16RLDNP-470MC
Description	INDUCTOR
Detailed Description	47 µH Shielded Drum Core, Wirewound Inductor 65 0 mA 490mOhm Nonstandard

https://www.DiGi-Electronics.com

Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
CDRH38D16RLDNP-470MC	Sumida America Components Inc.
Series:	Product Status:
CDRH38D16RLD	Active
Type:	Material - Core:
Drum Core, Wirewound	Ferrite
Inductance:	Tolerance:
47 µH	±20%
Current Rating (Amps):	Current - Saturation (Isat):
650 mA	220mA
Shielding:	DC Resistance (DCR):
Shielded	490mOhm
Q @ Freq:	Frequency - Self Resonant:
-	-
Ratings:	Operating Temperature:
-	-40°C ~ 105°C
Inductance Frequency - Test:	Features:
100 kHz	-
Mounting Type:	Package / Case:
Surface Mount	Nonstandard
Supplier Device Package:	Size / Dimension:
-	0.161" L x 0.150" W (4.10mm x 3.80mm)
Height - Seated (Max):	
0.071" (1.80mm)	

Environmental & Export classification

Moisture Sensitivity Level (MSL):
1 (Unlimited)

SMD Power Inductor

CDRH38D16R/LD

RoHS Compliance
Cd: Max. 0.01wt%
Others: Max. 0.1wt%

Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H:4.2 × 3.95 x1.8 mm Max.
- Product weight: 85mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data

- Operating temperature range: -40℃～+105℃
  (including coil's self temperature rise)
- Storage temperature range: -40℃～+105℃
- Solder reflow temperature: 260 ℃ peak.

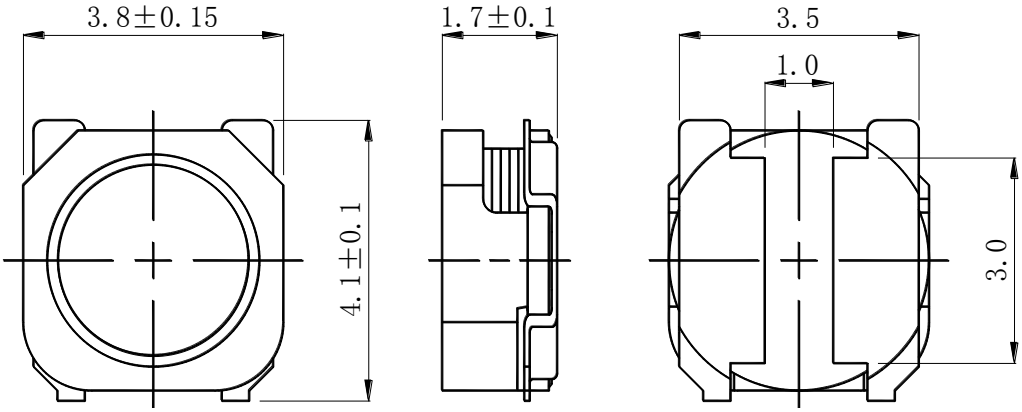
Packaging

- Carrier tape and reel packaging
- 13.0"diameter reel
- 3000pcs per reel

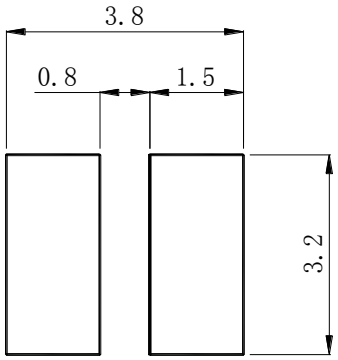
Applications

- Ideally used in Mobilephone,PDA,MP3, DSC/DVC, HDD, etc. as DC-DC converter inductors

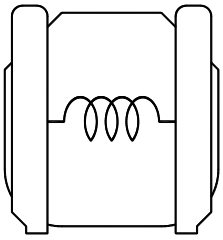
Dimension - [mm]



Recommended Land pattern - [mm]



Connection (Bottom view)



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SMD Power Inductor

CDRH38D16R/LD

RoHS Compliance
Cd: Max. 0.01wt%
Others: Max. 0.1wt%

Electrical Characteristics

Part No.	Stamp	Inductance (μH) [Within] ※1	D.C.R. (mΩ) [Within] (at20℃)	Saturation current (A) ※2		Temperature rise Current (A) ※3
				(at20℃)	(at105℃)	
CDRH38D16RLDNP-R90NC	A	0.90±30%	18±25%	1.54	1.31	3.80
CDRH38D16RLDNP-1R6NC	B	1.6±30%	25±25%	1.14	0.99	3.15
CDRH38D16RLDNP-2R2NC	C	2.2±30%	30±25%	1.01	0.88	3.00
CDRH38D16RLDNP-3R3MC	D	3.3±20%	37±25%	0.81	0.70	2.60
CDRH38D16RLDNP-4R7MC	E	4.7±20%	55±25%	0.69	0.59	2.00
CDRH38D16RLDNP-6R8MC	F	6.8±20%	75±25%	0.56	0.49	1.75
CDRH38D16RLDNP-100MC	G	10±20%	104±20%	0.47	0.40	1.45
CDRH38D16RLDNP-150MC	H	15±20%	163±20%	0.36	0.32	1.13
CDRH38D16RLDNP-220MC	J	22±20%	248±20%	0.32	0.28	0.90
CDRH38D16RLDNP-330MC	K	33±20%	351±20%	0.26	0.23	0.75
CDRH38D16RLDNP-470MC	L	47±20%	490±20%	0.22	0.19	0.65
CDRH38D16RLDNP-680MC	M	68±20%	867±20%	0.18	0.15	0.45
CDRH38D16RLDNP-101MC	N	100±20%	1335±20%	0.15	0.12	0.35

※1 Measuring condition: at 100kHz.

※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 value of D.C. current when the temperature rise is △t＝40℃(Ta＝20℃).

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SMD Power Inductor

CDRH38D16R/LD

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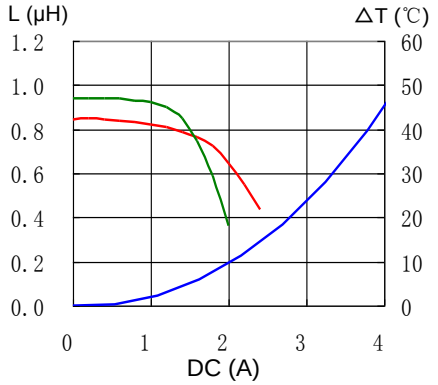
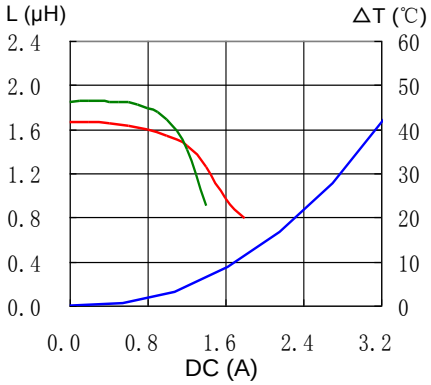
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) ΔT

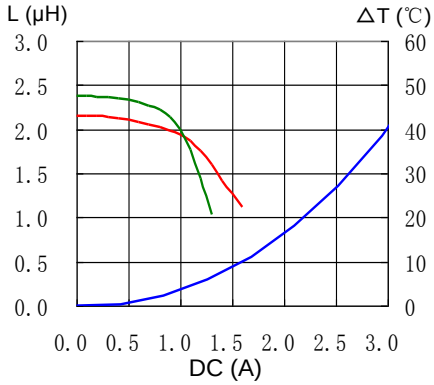
1. CDRH38D16RLDNP-R90NC



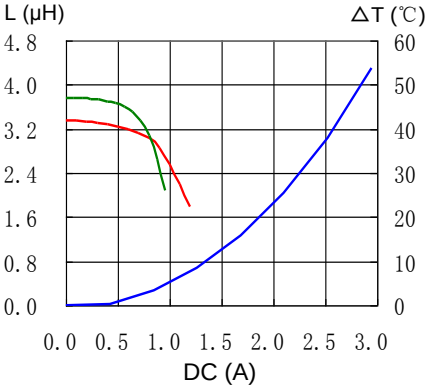
2. CDRH38D16RLDNP-1R6NC



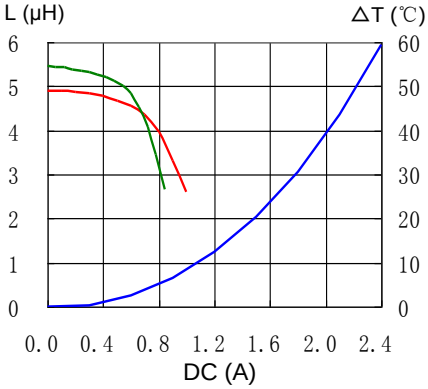
3. CDRH38D16RLDNP-2R2NC



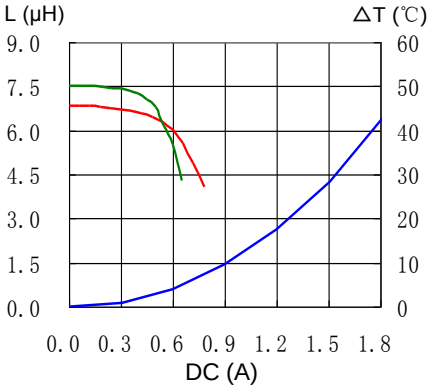
4. CDRH38D16RLDNP-3R3MC



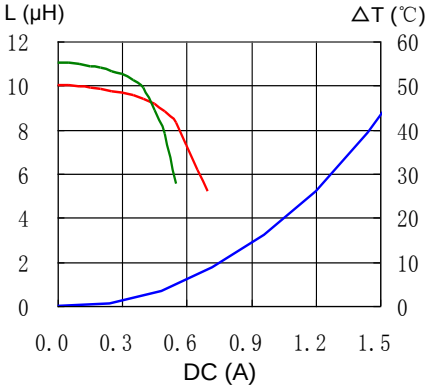
5. CDRH38D16RLDNP-4R7MC



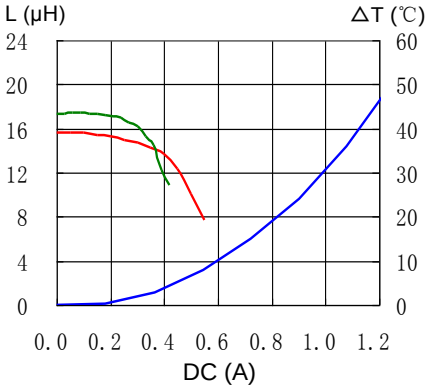
6. CDRH38D16RLDNP-6R8MC



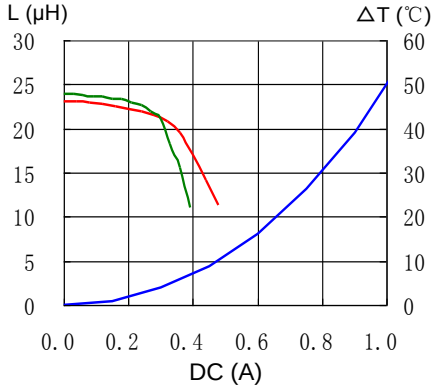
7. CDRH38D16RLDNP-100MC



8. CDRH38D16RLDNP-150MC



9. CDRH38D16RLDNP-220MC



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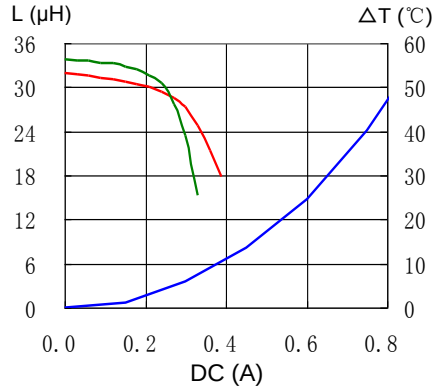
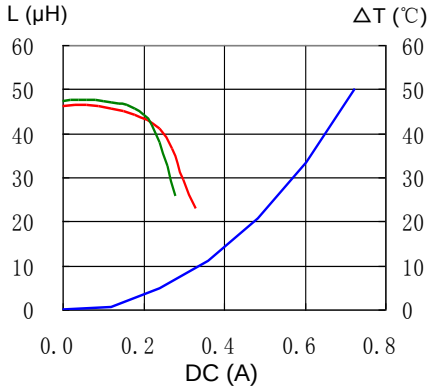
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) ΔT

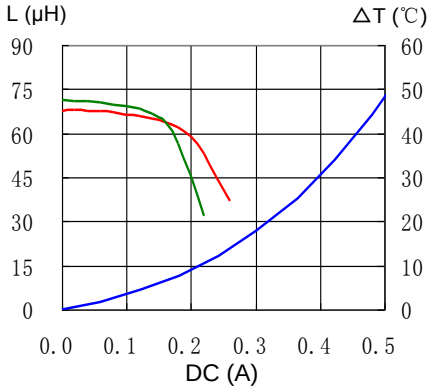
10. CDRH38D16RLDNP-330MC



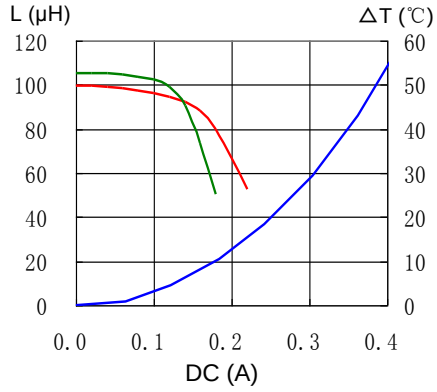
11. CDRH38D16RLDNP-470MC



12. CDRH38D16RLDNP-680MC

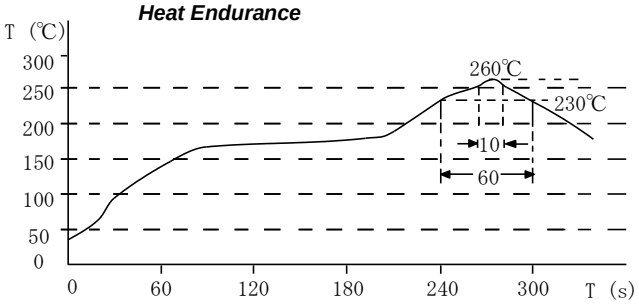


13. CDRH38D16RLDNP-101MC

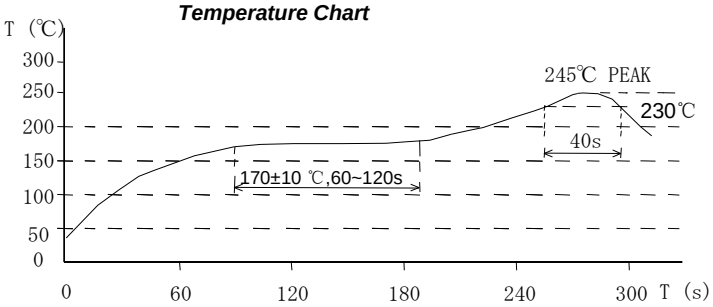


Solder Reflow Condition

Heat Endurance



Temperature Chart



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