

CDRH50D18RHF-470MC Datasheet



DiGi Electronics Part Number	CDRH50D18RHF-470MC-DG
Manufacturer	Sumida America Components Inc.
Manufacturer Product Number	CDRH50D18RHF-470MC
Description	INDUCTOR
Detailed Description	47 μ H Shielded Drum Core, Wirewound Inductor 70 0 mA 590mOhm Nonstandard

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Purchase and inquiry

Manufacturer Product Number:

CDRH50D18RHF-470MC

Series:

CDRH50D18R

Type:

Drum Core, Wirewound

Inductance:

47 μ H

Current Rating (Amps):

700 mA

Shielding:

Shielded

Q @ Freq:

-

Ratings:

-

Inductance Frequency - Test:

100 kHz

Mounting Type:

Surface Mount

Supplier Device Package:

-

Height - Seated (Max):

0.087" (2.20mm)

Manufacturer:

Sumida America Components Inc.

Product Status:

Active

Material - Core:

Ferrite

Tolerance:

\pm 20%

Current - Saturation (Isat):

530mA

DC Resistance (DCR):

590mOhm

Frequency - Self Resonant:

-

Operating Temperature:

-40°C ~ 105°C

Features:

-

Package / Case:

Nonstandard

Size / Dimension:

0.205" L x 0.205" W (5.20mm x 5.20mm)

Environmental & Export classification

Moisture Sensitivity Level (MSL):

1 (Unlimited)

SMD Power Inductor

CDRH50D18R

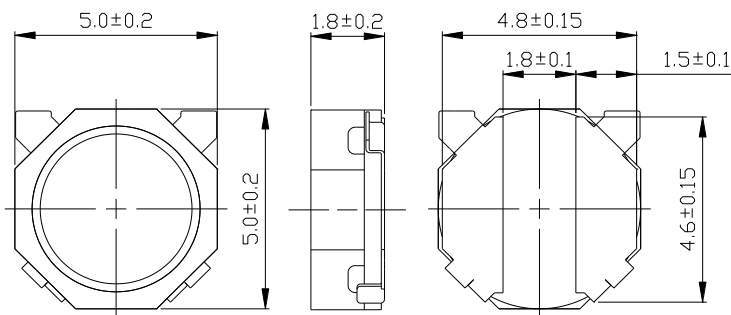


RoHS

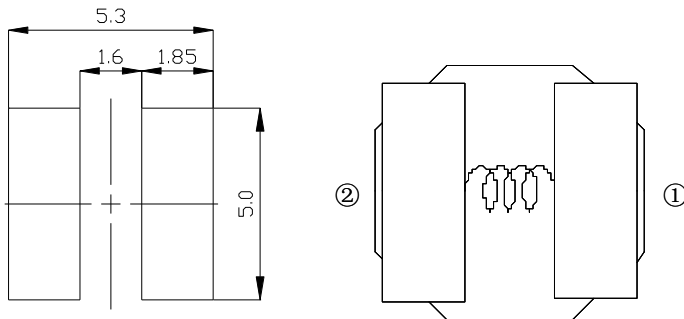
Halogen
Free



Dimension - [mm]



Land pattern and Schematics - [mm]



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: $5.2 \times 5.2 \times 2.0$ mm Max.
- Product weight: 0.16 g (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

Environmental Data

- Operating temperature range: $-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$ (including coil's self temperature rise)
- Storage temperature range: $-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$
- Solder reflow temperature: 260°C peak.

Packaging

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

Applications

- Lens of digital single lens reflex camera.

SMD Power Inductor

CDRH50D18R



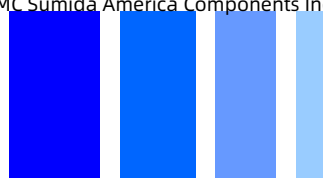
Electrical Characteristics

Part No.	Stamp	Inductance (μ H) 100kHz	D.C.R.(m Ω) [Within] (at 20°C)	Saturation current (A) ※1		Temperature Rise current (A) ※2
				(at 20°C)	(at 105°C)	
CDRH50D18RHF-1R0NC	A	1.0 \pm 30%	19 \pm 25%	3.40	2.70	4.10
CDRH50D18RHF-1R5NC	B	1.5 \pm 30%	23 \pm 25%	3.10	2.40	3.70
CDRH50D18RHF-2R2NC	C	2.2 \pm 30%	27 \pm 25%	2.40	2.00	3.40
CDRH50D18RHF-3R3NC	D	3.3 \pm 30%	39 \pm 25%	2.10	1.70	2.50
CDRH50D18RHF-4R7NC	E	4.7 \pm 30%	50 \pm 25%	1.70	1.40	2.20
CDRH50D18RHF-6R8NC	F	6.8 \pm 30%	73 \pm 25%	1.40	1.20	1.80
CDRH50D18RHF-8R2NC	G	8.2 \pm 30%	97 \pm 25%	1.20	1.05	1.65
CDRH50D18RHF-100MC	H	10 \pm 20%	113 \pm 25%	1.10	0.95	1.55
CDRH50D18RHF-150MC	I	15 \pm 20%	177 \pm 25%	0.95	0.80	1.30
CDRH50D18RHF-220MC	J	22 \pm 20%	238 \pm 25%	0.85	0.65	1.10
CDRH50D18RHF-330MC	K	33 \pm 20%	347 \pm 25%	0.65	0.52	0.90
CDRH50D18RHF-470MC	L	47 \pm 20%	590 \pm 25%	0.53	0.44	0.70
CDRH50D18RHF-680MC	M	68 \pm 20%	1054 \pm 25%	0.46	0.37	0.48
CDRH50D18RHF-820MC	N	82 \pm 20%	1180 \pm 25%	0.40	0.33	0.43
CDRH50D18RHF-101MC	P	100 \pm 20%	1300 \pm 25%	0.34	0.29	0.38

※ 1 Saturation current: The value of D.C. current when the inductance decreases to 70% of its nominal value.

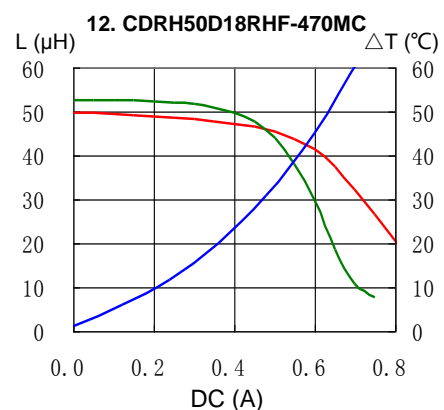
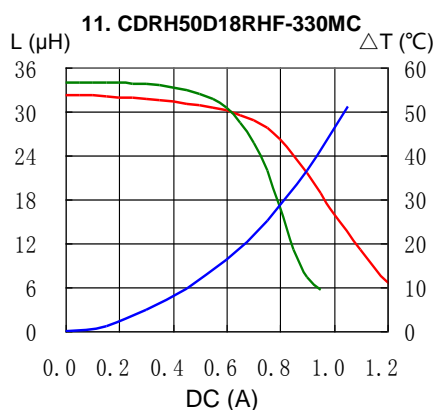
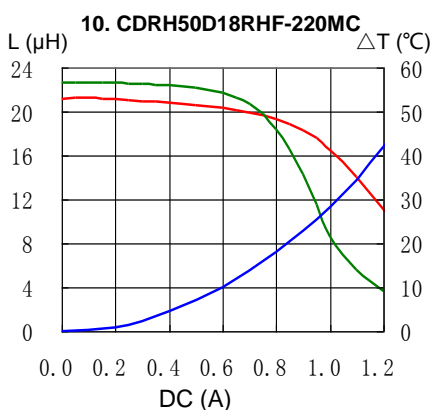
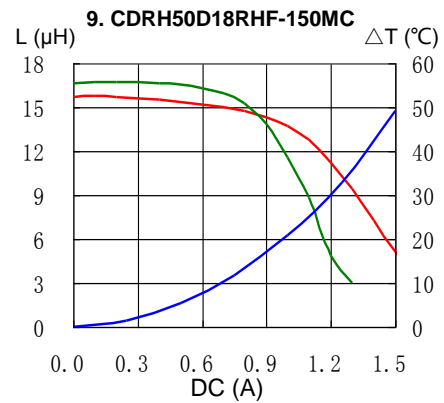
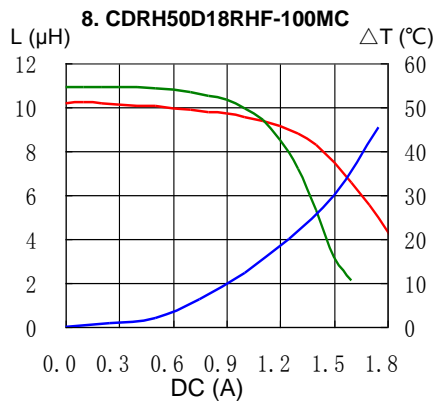
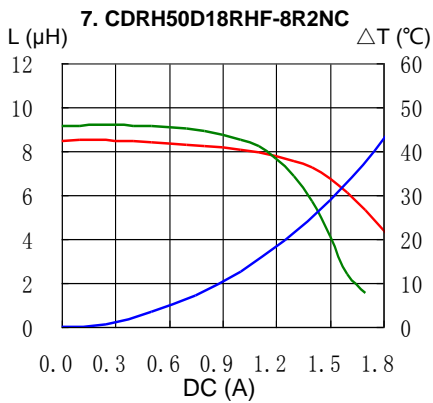
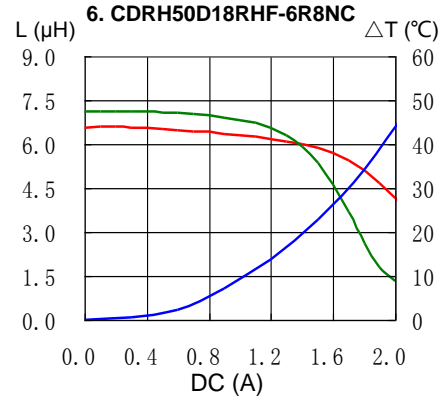
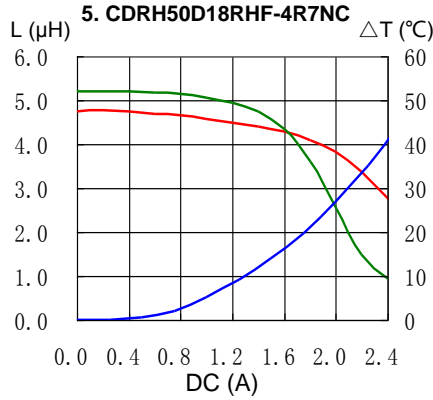
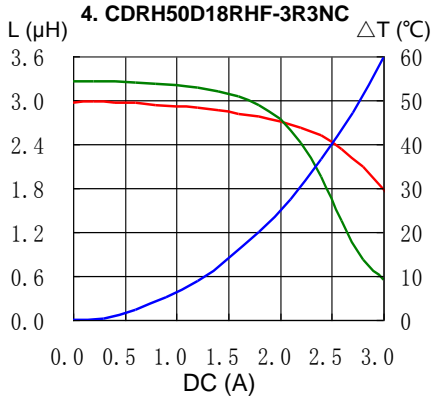
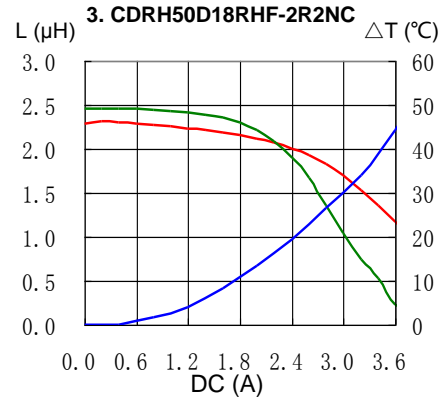
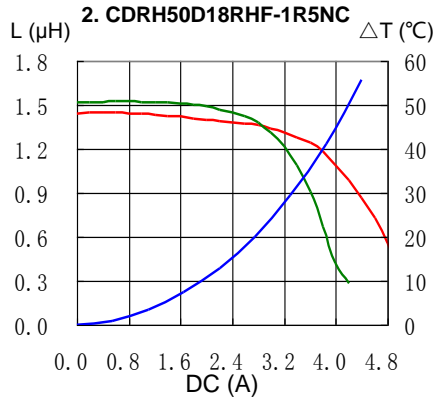
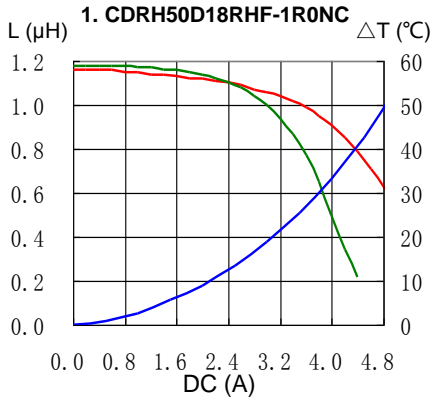
※ 2 Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

SMD Power Inductor CDRH50D18R

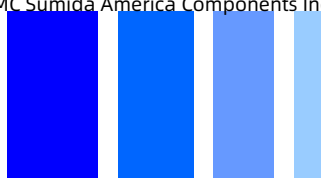


Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

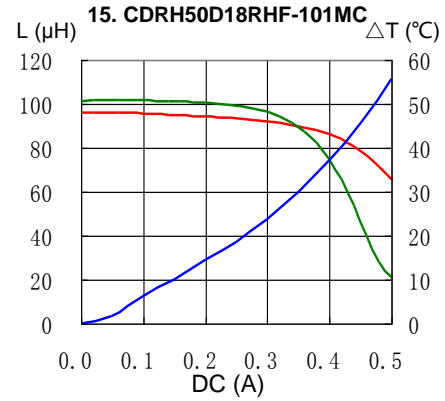
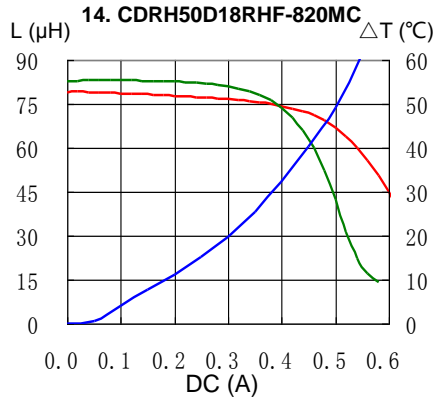
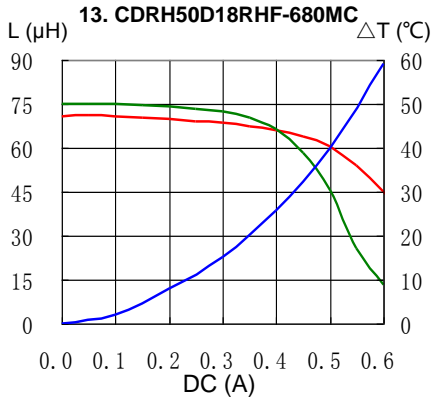


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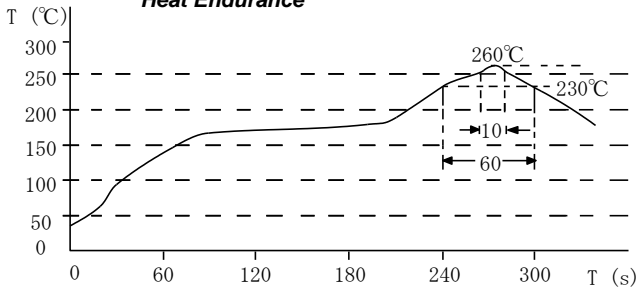
Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

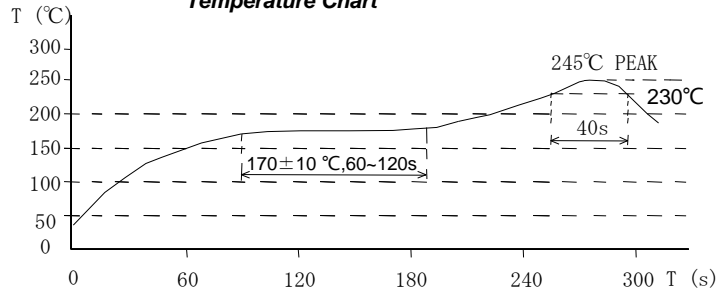


Solder Reflow Condition

Heat Endurance



Temperature Chart



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