

CDRH7D16NP-680MC Datasheet



DiGi Electronics Part Number	CDRH7D16NP-680MC-DG
Manufacturer	Sumida America Components Inc.
Manufacturer Product Number	CDRH7D16NP-680MC
Description	INDUCTOR
Detailed Description	68 μ H Shielded Drum Core, Wirewound Inductor 710 mA 517mOhm Nonstandard

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Purchase and inquiry

Manufacturer Product Number:

CDRH7D16NP-680MC

Series:

CDRH7D16

Type:

Drum Core, Wirewound

Inductance:

68 μ H

Current Rating (Amps):

710 mA

Shielding:

Shielded

Q @ Freq:

-

Ratings:

-

Inductance Frequency - Test:

100 kHz

Mounting Type:

Surface Mount

Supplier Device Package:

-

Height - Seated (Max):

0.071" (1.80mm)

Manufacturer:

Sumida America Components Inc.

Product Status:

Active

Material - Core:

Ferrite

Tolerance:

\pm 20%

Current - Saturation (Isat):

640mA

DC Resistance (DCR):

517mOhm

Frequency - Self Resonant:

-

Operating Temperature:

-40°C ~ 100°C

Features:

-

Package / Case:

Nonstandard

Size / Dimension:

0.303" L x 0.295" W (7.70mm x 7.50mm)

SMD Power Inductor

CDRH7D16



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 8.0 × 7.7 × 1.8 mm Max.
- Product weight: 0.4g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data

- Operating temperature range: -40°C~+100°C (including coil's self temperature rise)
- Storage temperature range: -40°C~+100°C
- Solder reflow temperature: 260 °C peak.

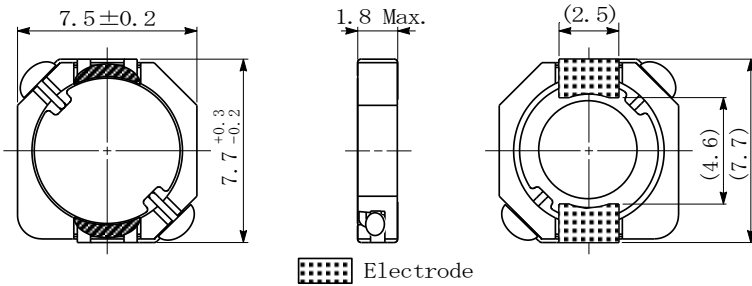
Packaging

- Carrier tape and reel packaging
- 12.9" diameter reel
- 2000pcs per reel

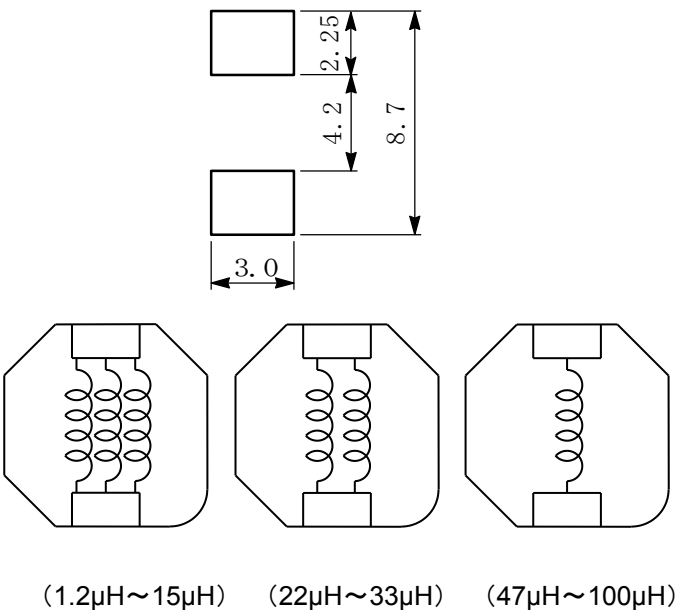
Applications

- Ideally used in Notebook PC, Game machine, HDD, DVC, LCD TV etc. as DC-DC converter inductors.

Dimension - [mm]

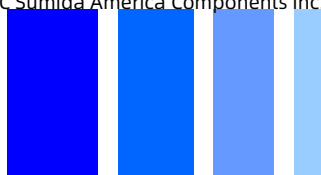


Land pattern and Schematics - [mm]



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CDRH7D16



Electrical Characteristics

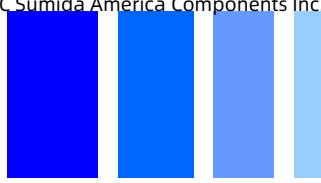
Part No.	Stamp	Inductance (μH) [within] ※ 1	D.C.R. (m Ω) [within] (at 20°C)	Saturation Current (A) ※ 2		Temperature Rise Current (A) ※ 3
				at 20°C	at 100°C	
CDRH7D16NP-1R2PC	1R2	1.2 \pm 25%	16.8 \pm 25%	4.60	4.00	4.94
CDRH7D16NP-1R8PC	1R8	1.8 \pm 25%	20.4 \pm 25%	3.60	3.00	4.21
CDRH7D16NP-2R4PC	2R4	2.4 \pm 25%	24.8 \pm 25%	3.10	2.50	3.77
CDRH7D16NP-3R3PC	3R3	3.3 \pm 25%	30.9 \pm 25%	2.70	2.30	3.23
CDRH7D16NP-4R7PC	4R7	4.7 \pm 25%	45.4 \pm 25%	2.40	1.90	2.65
CDRH7D16NP-6R8PC	6R8	6.8 \pm 25%	61.0 \pm 25%	2.00	1.60	2.24
CDRH7D16NP-100MC	100	10 \pm 20%	78.6 \pm 25%	1.60	1.30	1.97
CDRH7D16NP-150MC	150	15 \pm 20%	115 \pm 20%	1.30	1.10	1.59
CDRH7D16NP-220MC	220	22 \pm 20%	161 \pm 20%	1.10	0.90	1.23
CDRH7D16NP-330MC	330	33 \pm 20%	246 \pm 20%	0.92	0.75	1.04
CDRH7D16NP-470MC	470	47 \pm 20%	369 \pm 20%	0.76	0.60	0.81
CDRH7D16NP-680MC	680	68 \pm 20%	517 \pm 20%	0.64	0.50	0.71
CDRH7D16NP-101MC	101	100 \pm 20%	696 \pm 20%	0.53	0.40	0.59

※1. Inductance measuring conditions at 100kHz.

※2. Saturation current: The DC current at which the inductance decreases to 65% of its nominal value.

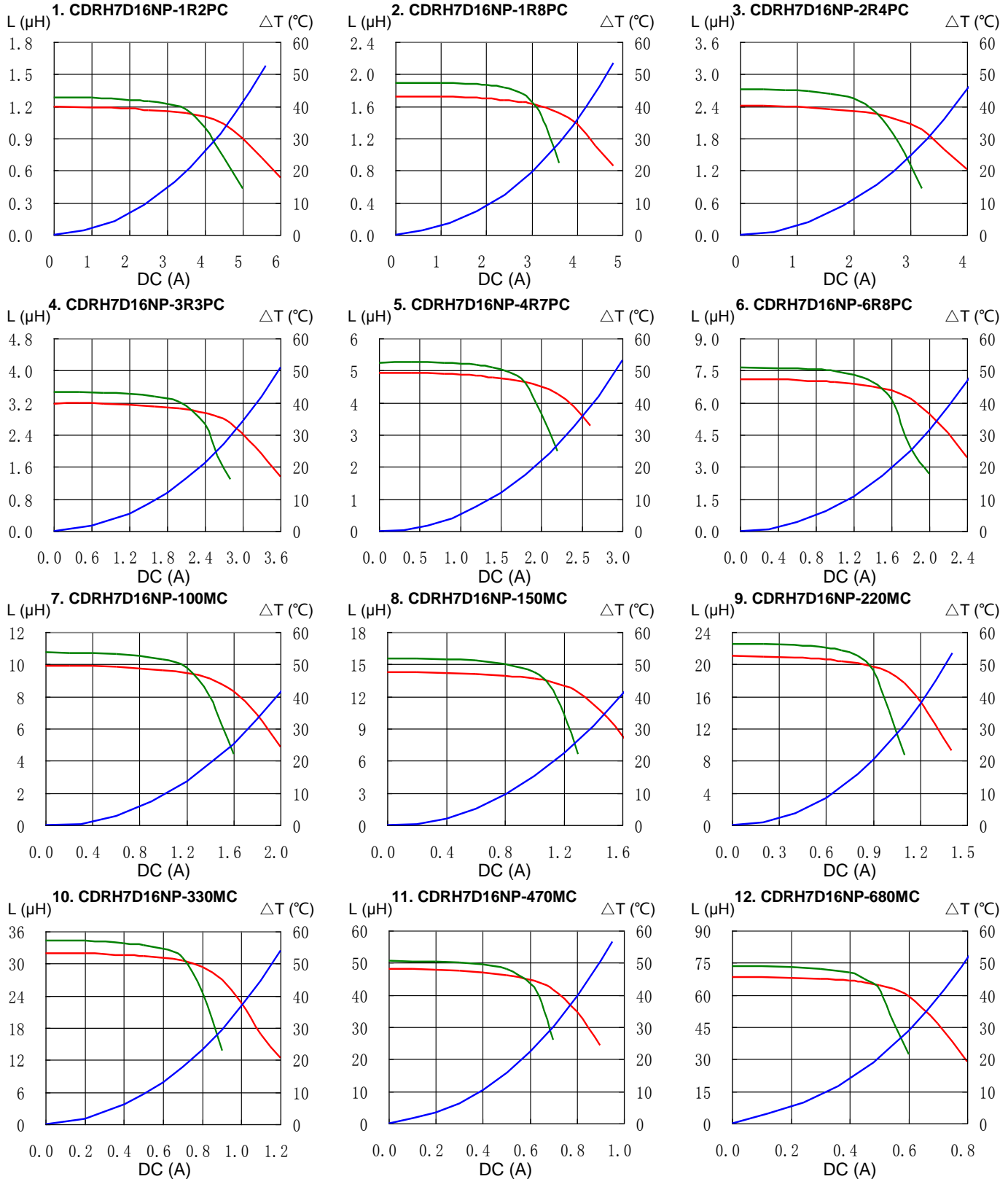
※3. Temperature rise current: The DC current at which the temperature rise is $\Delta t=40^\circ\text{C}$. ($T_a=20^\circ\text{C}$)

SMD Power Inductor CDRH7D16



Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT



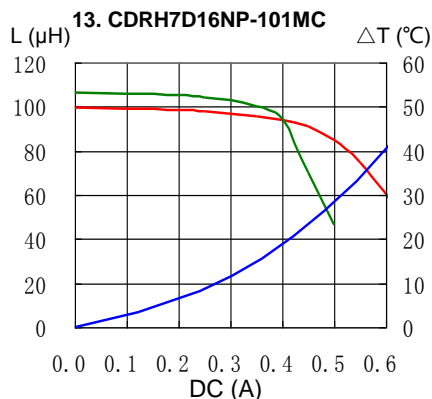
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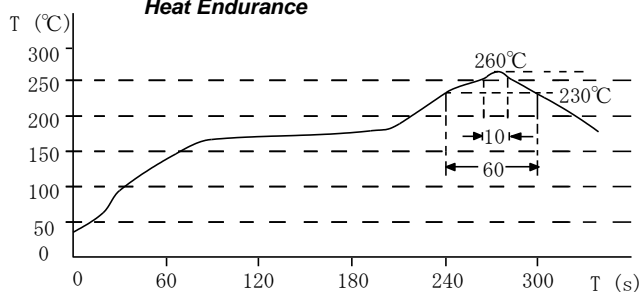
Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

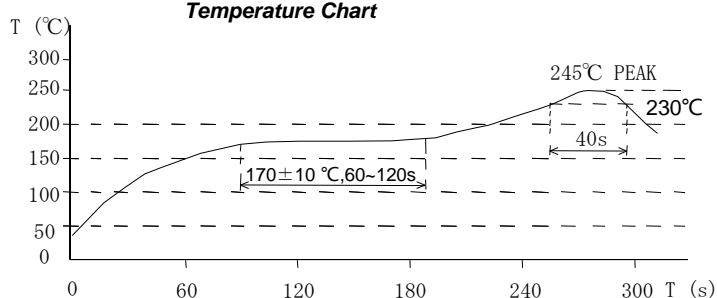


Solder Reflow Condition

Heat Endurance



Temperature Chart



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