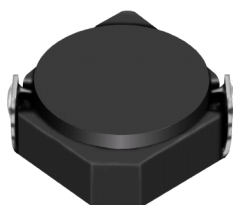


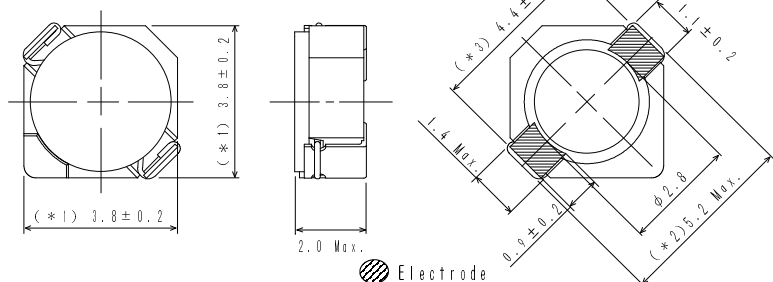
SMD Power Inductor CDRH3D18/E



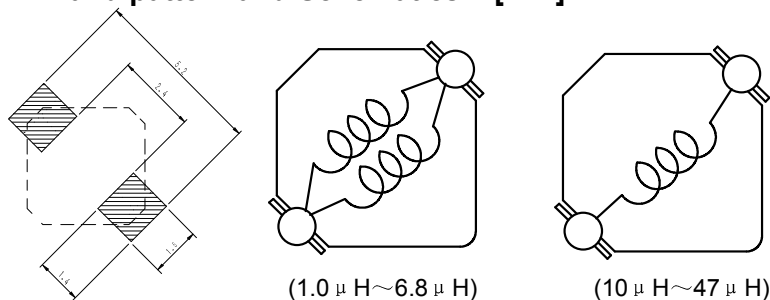
Halogen
Free



Dimension - [mm]



Land pattern and Schematics - [mm]



Electrical Characteristics

Part Name	Stamp	Inductance (μH) [within] ※1	D.C.R. (mΩ) Max. (Typ.) (at 20°C)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				at 20°C	at 105°C	
CDRH3D18ENP-1R0NC	A	1.0 ± 30%	50(40)	2.80	2.00	2.40
CDRH3D18ENP-1R5NC	B	1.5 ± 30%	56(45)	2.20	1.70	2.20
CDRH3D18ENP-2R2NC	C	2.2 ± 30%	63(50)	1.80	1.30	2.00
CDRH3D18ENP-3R3NC	D	3.3 ± 30%	69(55)	1.60	1.20	1.80
CDRH3D18ENP-4R7NC	E	4.7 ± 30%	107.5(86)	1.35	0.95	1.35
CDRH3D18ENP-6R8NC	F	6.8 ± 30%	150(120)	1.10	0.80	1.10
CDRH3D18ENP-100NC	G	10 ± 30%	205(164)	0.90	0.65	0.90
CDRH3D18ENP-120NC	H	12 ± 30%	275(220)	0.80	0.60	0.80
CDRH3D18ENP-150NC	I	15 ± 30%	302(241)	0.75	0.55	0.75
CDRH3D18ENP-220NC	J	22 ± 30%	424(339)	0.60	0.45	0.60
CDRH3D18ENP-330NC	K	33 ± 30%	640(512)	0.50	0.35	0.45
CDRH3D18ENP-470NC	L	47 ± 30%	964(771)	0.40	0.30	0.35

※1. Inductance measuring condition: 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 Δt=40°C. (Ta=20°C)

Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 4.0 × 4.0 × 2.0 mm Max.
- Product weight: 87mg (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

Environmental Data

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

Packaging

- Carrier tape and reel packaging
- 7.0" diameter reel
- 1000pcs per reel

Applications

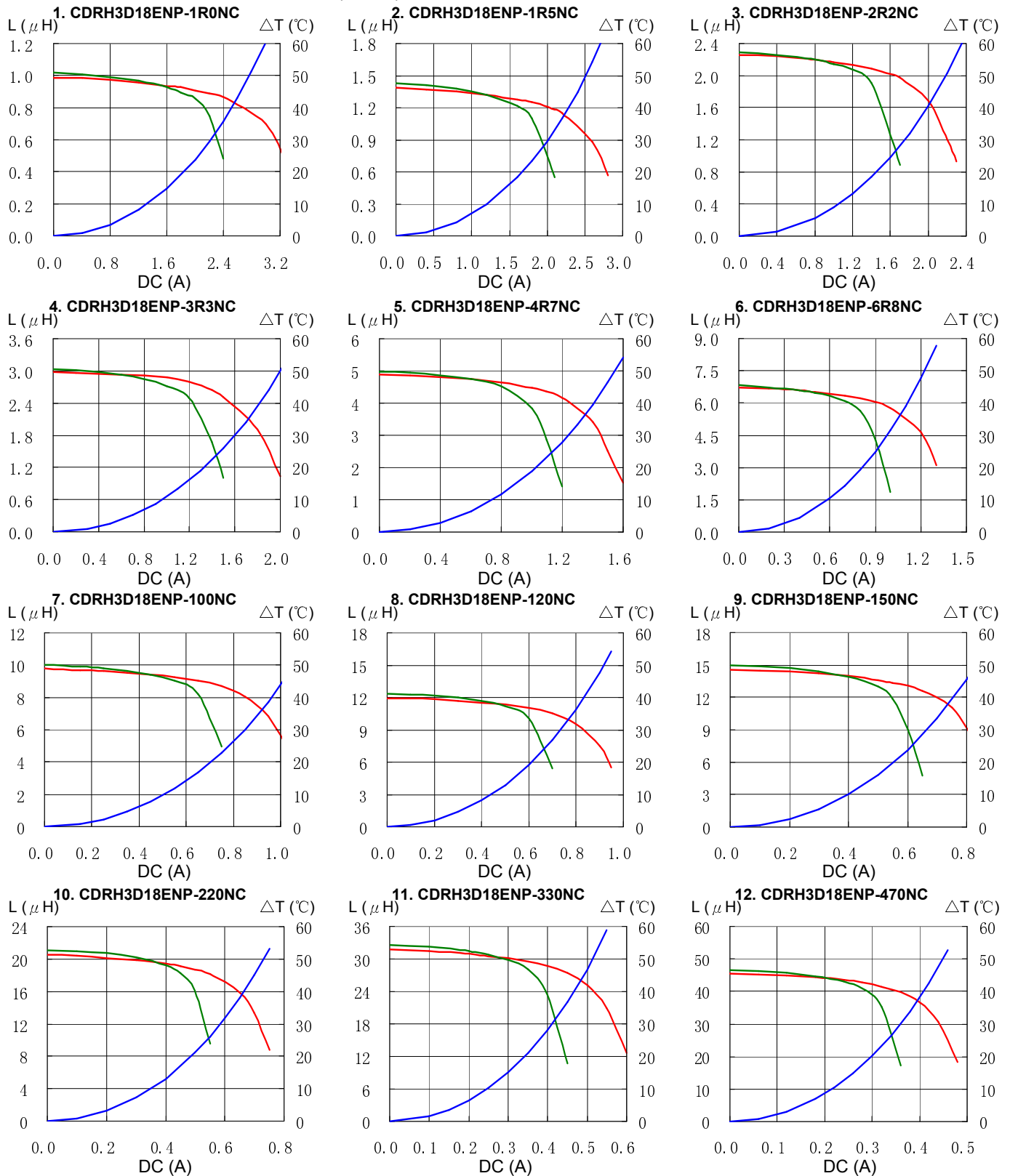
- Ideally used in Mobile phone, PDA, MP3, DSC/DVC, Portable DVD, etc as DC-DC converter inductors.

SMD Power Inductor CDRH3D18/E



Saturation Current & Temperature Rise Graph

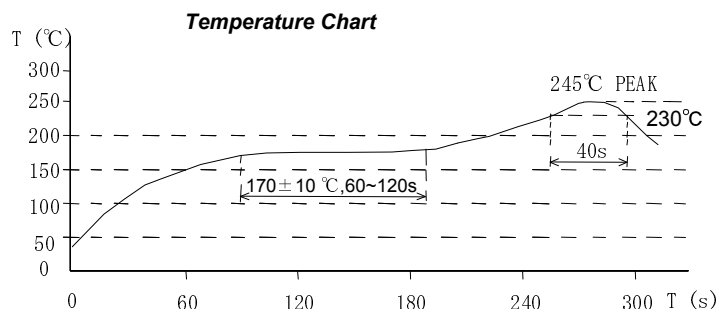
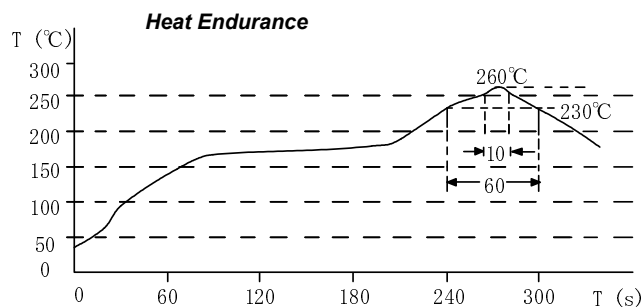
— L (20°C) — L (100°C) — ΔT



SMD Power Inductor CDRH3D18/E



Solder Reflow Condition



Please refer to the sales offices on our website - <http://www.sumida.com>

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