

SMD Power Inductor

CDRH40D18/A



Description

- Ferrite drum core construction.
- Magnetically shielded
- L×W×H: 4.5×4.5×2.0 mm Max.
- Product weight: 0.1g(Ref.)
- Moisture Sensitivity Level: 1
- Qualification to AEC-Q200



Environmental Data

- Operating Temperature: -40°C to +125°C (not including self-heating)
- Storage temperature range: -40°C~+85°C

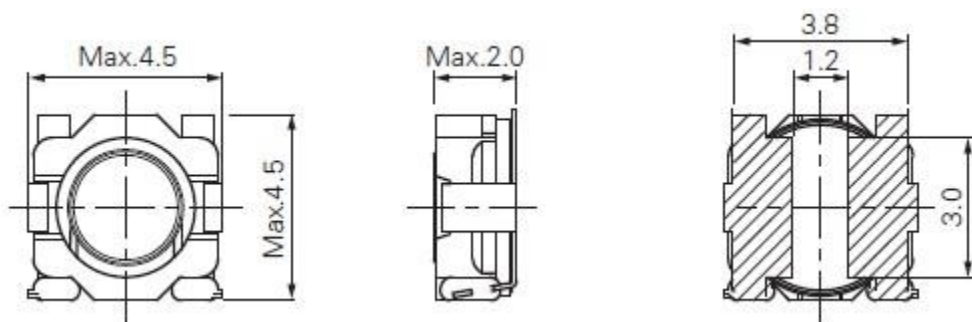
Packaging

- Carrier tape and reel packaging

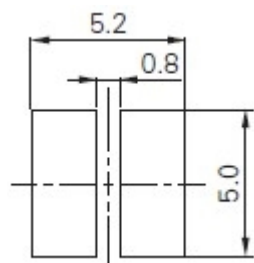
Applications

- High temp and high reliability automotive applications

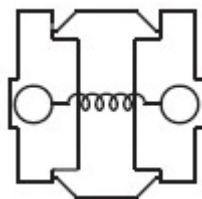
Dimension - [mm]



Recommended Land pattern - [mm]



Wire Connection



SMD Power Inductor

CDRH40D18/A



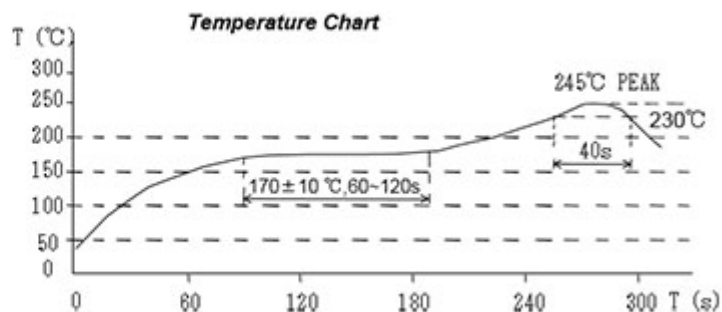
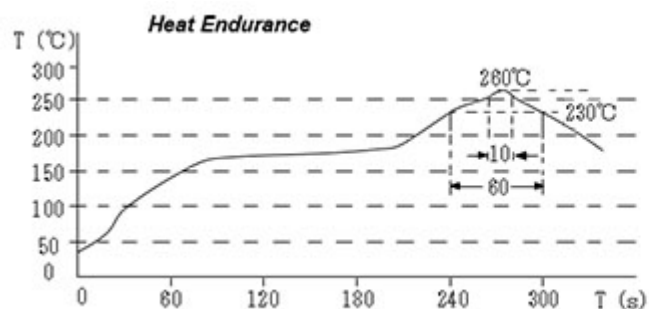
Electrical Characteristics

Part Number	Inductance [Within] (μ H) ※1	D.C.R. at 20°C Max.(Typ.) (m Ω)	Saturation Current (A) Max.(Typ.) ※2	Temperature Rise Current (A) Max.(Typ.) ※3
CDRH40D18ANP-2R2NC	2.20 $\pm$ 30%	63.00 (50.00)	1.36 (2.14)	(1.82)
CDRH40D18ANP-3R3NC	3.30 $\pm$ 30%	108 (86.00)	1.10 (1.77)	(1.45)
CDRH40D18ANP-4R7NC	4.70 $\pm$ 30%	128 (102)	0.84 (1.39)	(1.34)
CDRH40D18ANP-6R8NC	6.80 $\pm$ 30%	205 (164)	0.73 (1.22)	(0.99)
CDRH40D18ANP-100NC	10.00 $\pm$ 30%	338 (270)	0.59 (0.98)	(0.72)
CDRH40D18ANP-150NC	15.00 $\pm$ 30%	428 (342)	0.49 (0.82)	(0.65)
CDRH40D18ANP-220NC	22.00 $\pm$ 30%	615 (492)	0.41 (0.66)	(0.57)
CDRH40D18ANP-330NC	33.00 $\pm$ 30%	1175 (940)	0.31 (0.54)	(0.37)
CDRH40D18ANP-470NC	47.00 $\pm$ 30%	1500 (1200)	0.28 (0.45)	(0.35)

※1. Inductance measuring condition: at 100 kHz.

※2. Rated current: The DC current at which the inductance decreases to 65% of its nominal value or when $\Delta t=30^\circ\text{C}$, whichever is lower.

Solder Reflow Condition



Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

SMD Power Inductor

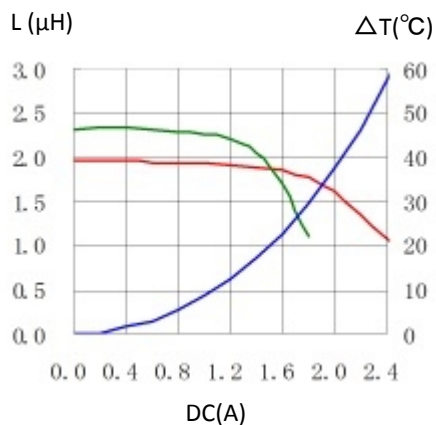
CDRH40D18/A



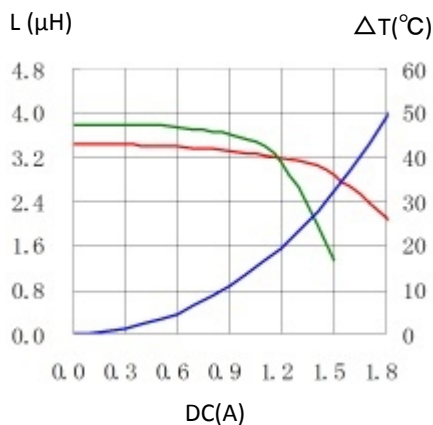
Saturation Current & Temperature Rise Graph

— L (20°C) — L (155°C) — ΔT

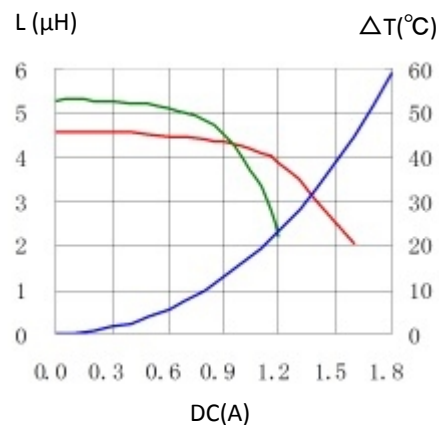
1. CDRH40D18ANP-2R2NC



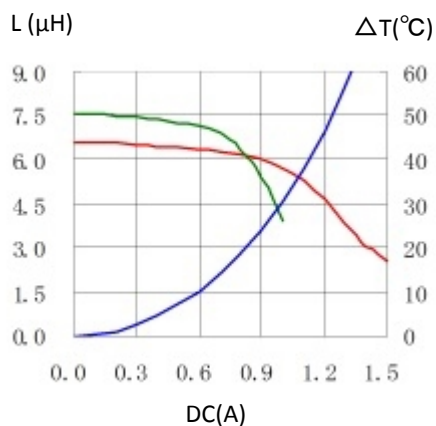
2. CDRH40D18ANP-3R3NC



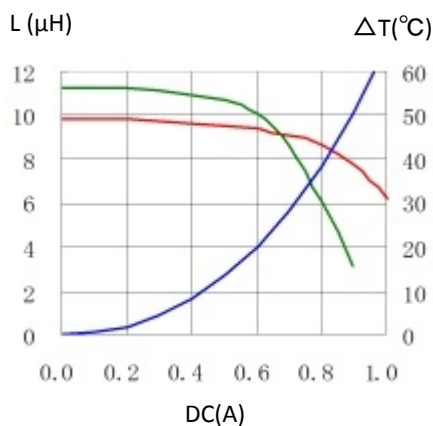
3. CDRH40D18ANP-4R7NC



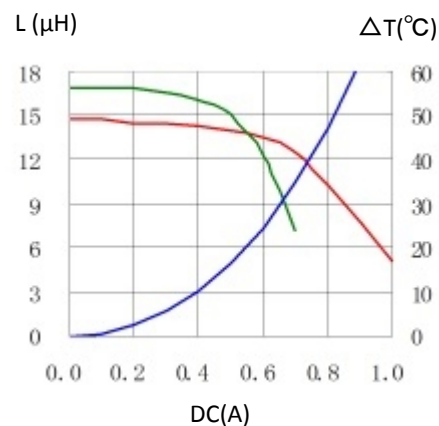
4. CDRH40D18ANP-6R8NC



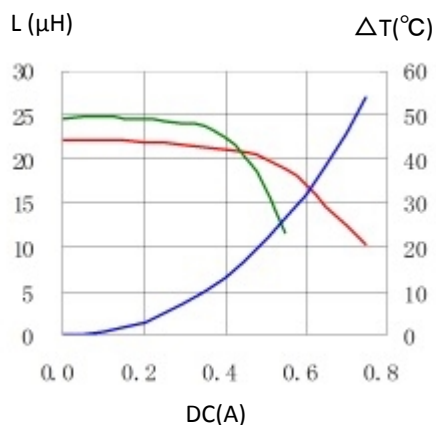
5. CDRH40D18ANP-100NC



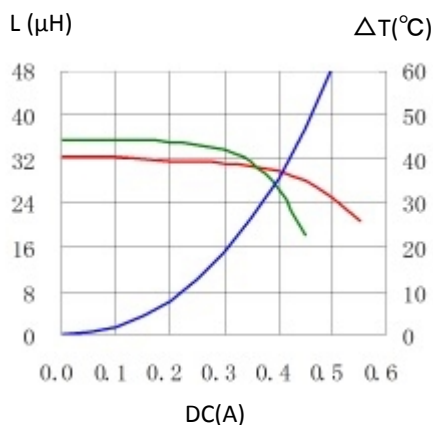
6. CDRH40D18ANP-150NC



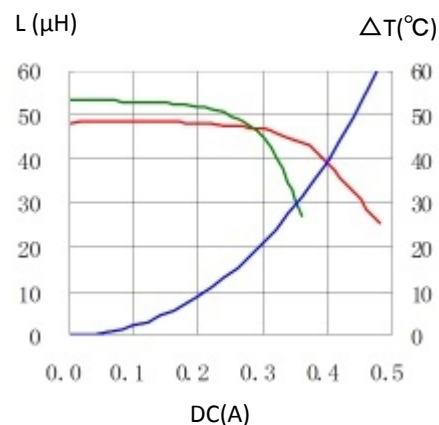
7. CDRH40D18ANP-220NC



8. CDRH40D18ANP-330NC



9. CDRH40D18ANP-470NC



SMD Power Inductor

CDRH40D18/A



For sales office information, please [click here](#) to visit our website.