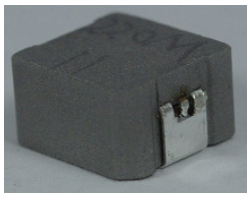
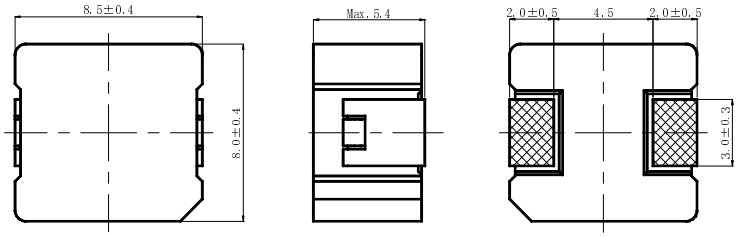
SMD Power Inductor
CDMC80D50/AA

Under Development

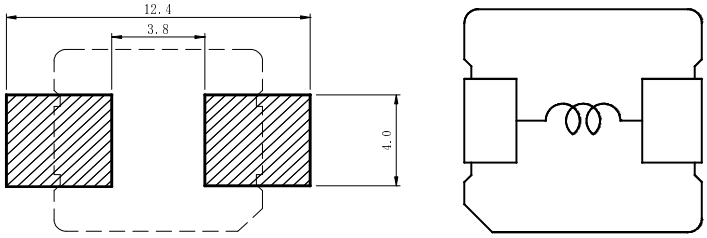


Description
- Metal compound molding type construction.
- Magnetically shielded.
- L × W × H: 8.9 × 8.4 × 5.4 mm Max.
- Product weight 1.9g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Qualification to AEC-Q200.

Dimension - [mm]



Land pattern and Schematics - [mm]



Environmental Data
- Operating temperature range: -40℃~+150℃ (excluding coil's self temperature rise)
- Storage temperature range: -40℃～+85℃
- Solder reflow temperature: 260 ℃ peak.

Packaging
- Carrier tape and reel packaging

Applications
- Automotive and other high temperature, high reliability application.

Revised: 26-Jul-11

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Electrical Characteristics

Part No.	Stamp	Inductance (μH) [Within] ※1	D.C.R. (mΩ) Max. (Typ.) (at 20℃)	Saturation Current (A) (at 20℃) ※2	Temperature rise current (A) ※3
CDMC80D50/AANP-1R3M	1R3	1.3±20%	6.4±10%	14.0	6.2
CDMC80D50/AANP-1R8M	1R8	1.8±20%	7.6±10%	12.0	5.8
CDMC80D50/AANP-2R2M	2R2	2.2±20%	8.8±10%	11.0	5.5
CDMC80D50/AANP-3R3M	3R3	3.3±20%	11.5±10%	9.5	4.9
CDMC80D50/AANP-4R7M	4R7	4.7±20%	14.5±10%	8.5	4.5
CDMC80D50/AANP-6R8M	6R8	6.8±20%	23.1±10%	7.0	3.7
CDMC80D50/AANP-100M	100	10±20%	32.5±10%	6.2	2.9
CDMC80D50/AANP-150M	150	15±20%	51.2±10%	4.8	2.3
CDMC80D50/AANP-220M	220	22±20%	64.3±10%	4.2	2.0
CDMC80D50/AANP-330M	330	33±20%	103.4±10%	3.2	2.0
CDMC80D50/AANP-470M	470	47±20%	125.6±10%	2.8	1.4

※1. Measuring condition: at 100 kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 80% of it's nominal value.

※3. Temperature rise current: The value of D.C. current when the temperature rise is △t＝15℃(Ta＝20℃).

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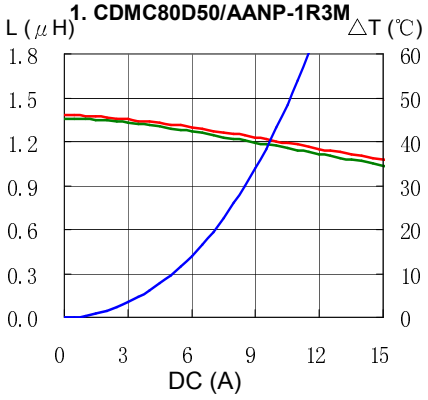
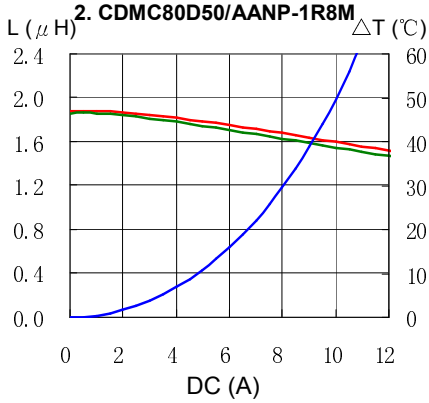
Saturation Current & Temperature Rise Graph

L (20℃) L (150℃) △T

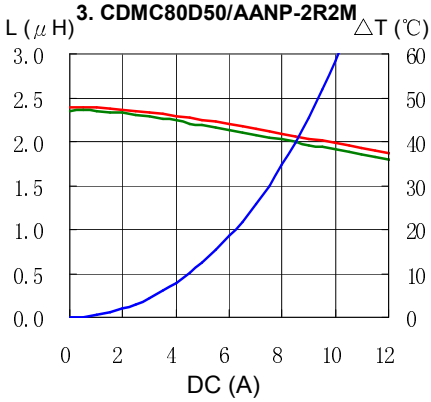
1. CDMC80D50/AANP-1R3M



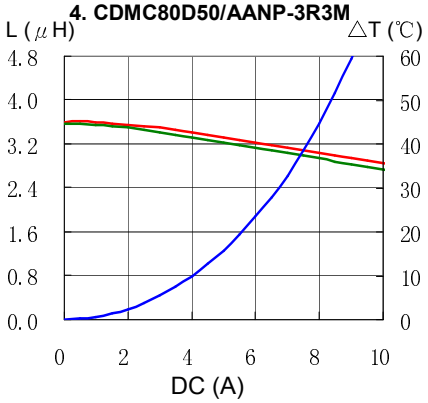
2. CDMC80D50/AANP-1R8M



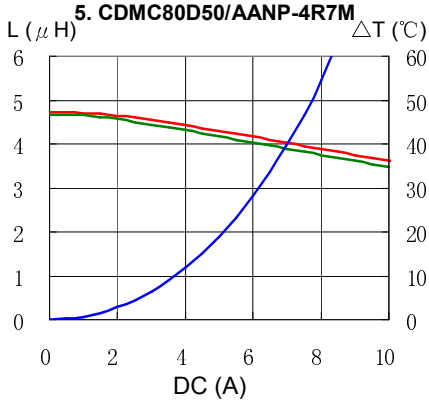
3. CDMC80D50/AANP-2R2M



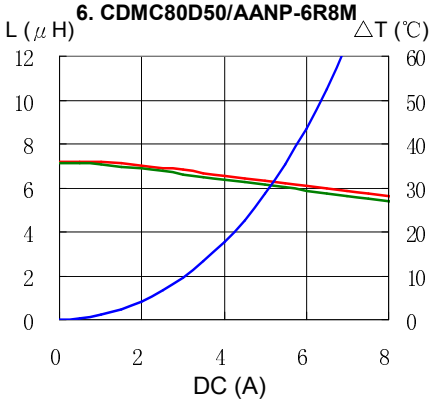
4. CDMC80D50/AANP-3R3M



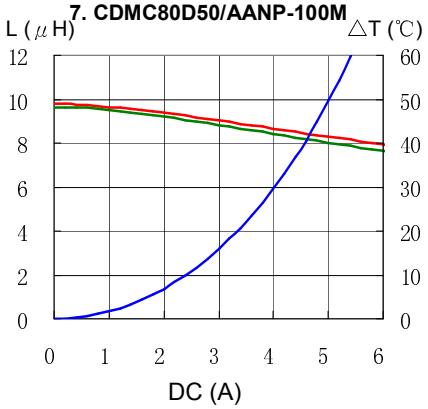
5. CDMC80D50/AANP-4R7M



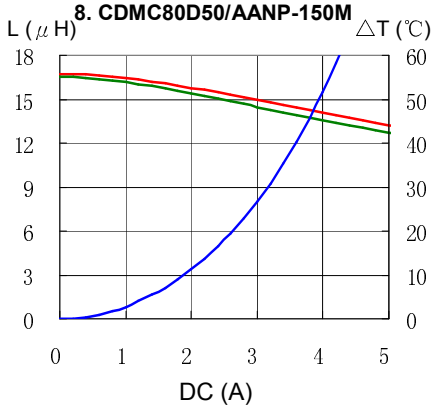
6. CDMC80D50/AANP-6R8M



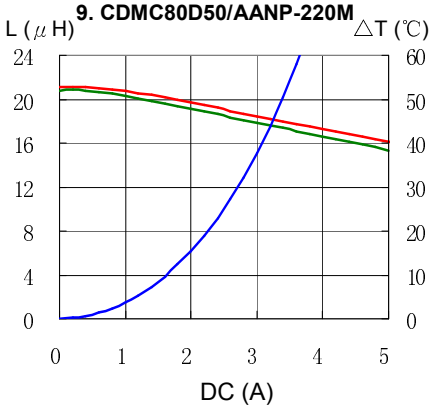
7. CDMC80D50/AANP-100M



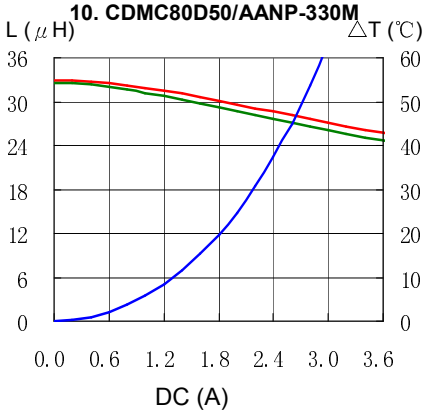
8. CDMC80D50/AANP-150M



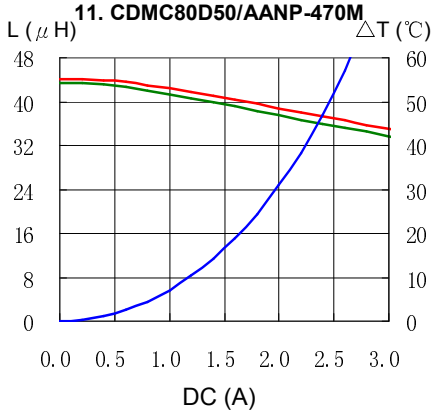
9. CDMC80D50/AANP-220M



10. CDMC80D50/AANP-330M



11. CDMC80D50/AANP-470M



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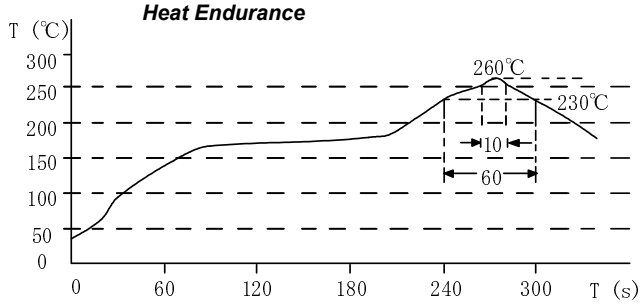
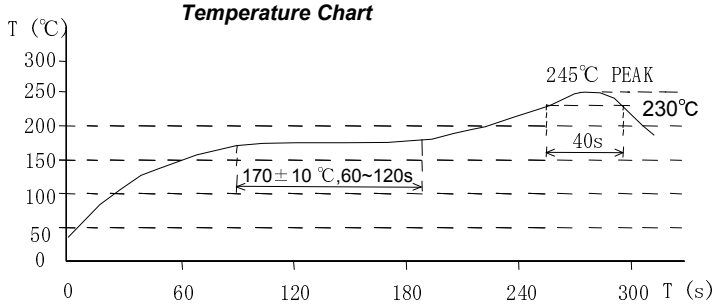
Solder Reflow Condition

Heat Endurance



Temperature Chart



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