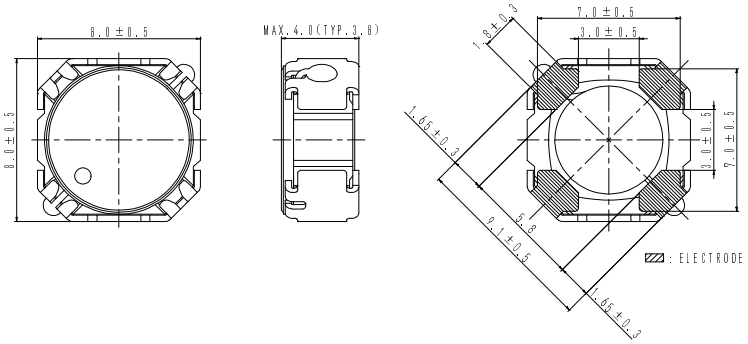
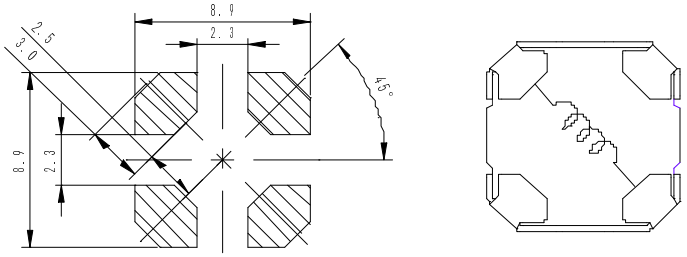
SMD Power Inductor
CDRH8D38/A

Description
- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 8.5 × 8.5 × 4.0 mm Max.
- Product weight:0.9 g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Qualification to AEC-Q200.

Dimension - [mm]



Land pattern and Schematics - [mm]



Environmental Data
- Operating temperature range: -40℃～+125℃ (including coil's self temperature rise)
- Storage temperature range: -40℃～+85℃
- Solder reflow temperature: 260 ℃ peak.

Packaging
- Carrier tape and reel packaging
- 13.0"diameter reel
- 1000pcs per reel

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

Revised: 7-Jan-14

Electrical Characteristics

Part No.	Stamp	Inductance (μH) 100kHz	D.C.R . (mΩ) [Max.] (Typ.) (at 20℃) ※1	Rated current (A) (at 125℃)※2
CDRH8D38/ANP-1ØØMC	100	10μH±20%	42.5(34)	1.72
CDRH8D38/ANP-12ØMC	120	12μH±20%	55.0(44)	1.57
CDRH8D38/ANP-15ØMC	150	15μH±20%	70.0(56)	1.41
CDRH8D38/ANP-18ØMC	180	18μH±20%	83.8(67)	1.33
CDRH8D38/ANP-22ØMC	220	22μH±20%	100.0(80)	1.24
CDRH8D38/ANP-27ØMC	270	27μH±20%	125.0(100)	1.11
CDRH8D38/ANP-33ØMC	330	33μH±20%	141.3(113)	0.98
CDRH8D38/ANP-39ØMC	390	39μH±20%	171.3(137)	0.89
CDRH8D38/ANP-47ØMC	470	47μH±20%	225.0(180)	0.78
CDRH8D38/ANP-56ØMC	560	56μH±20%	290.0(232)	0.68
CDRH8D38/ANP-68ØMC	680	68μH±20%	318.8(255)	0.65
CDRH8D38/ANP-82ØMC	820	82μH±20%	363.8(291)	0.60
CDRH8D38/ANP-1Ø1MC	101	100μH±20%	478.8(383)	0.53
CDRH8D38/ANP-121MC	121	120μH±20%	530.0(424)	0.50

※1 D.C.R.( ) are typical value. .

※2. Rated current: The DC current at which the inductance decreases to 65% of its nominal value or when △t=30℃, whichever is lower .

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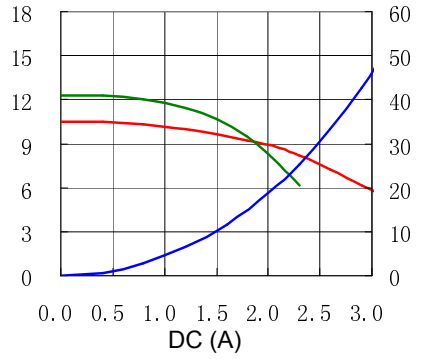
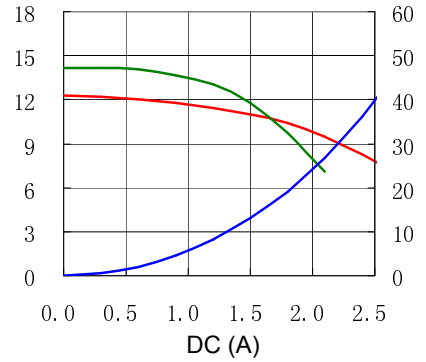
Saturation Current & Temperature Rise Graph

L (20℃) L (125℃) △T

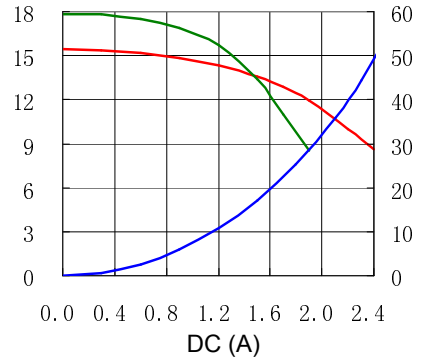
1. CDRH8D38/ANP-100MCM



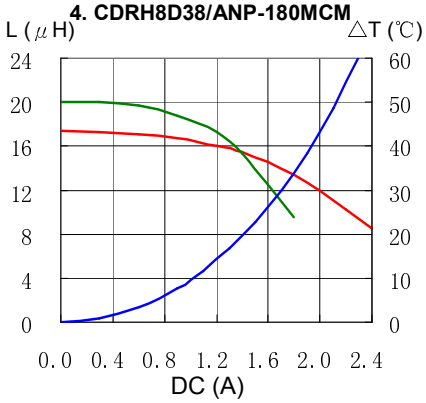
2. CDRH8D38/ANP-120MCM



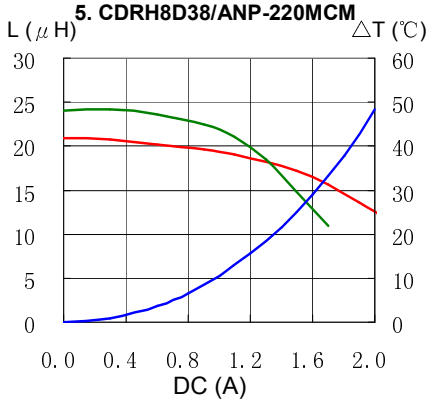
3. CDRH8D38/ANP-150MCM



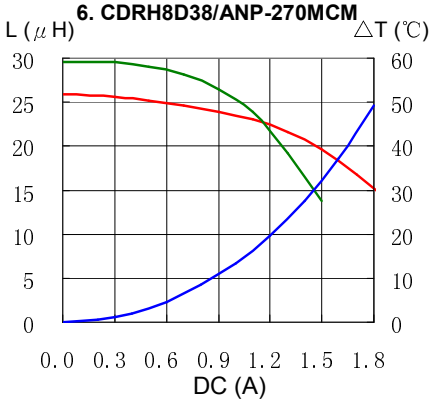
4. CDRH8D38/ANP-180MCM



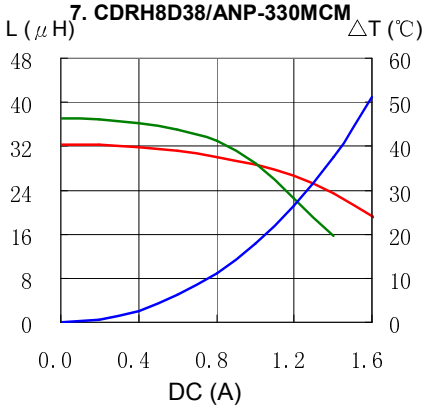
5. CDRH8D38/ANP-220MCM



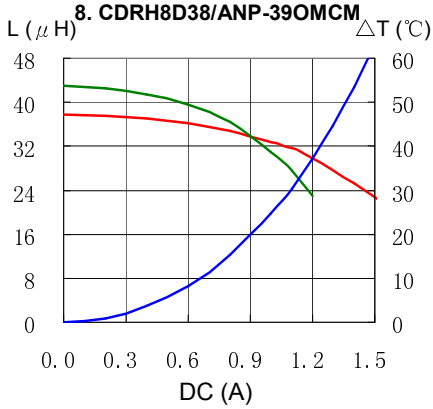
6. CDRH8D38/ANP-270MCM



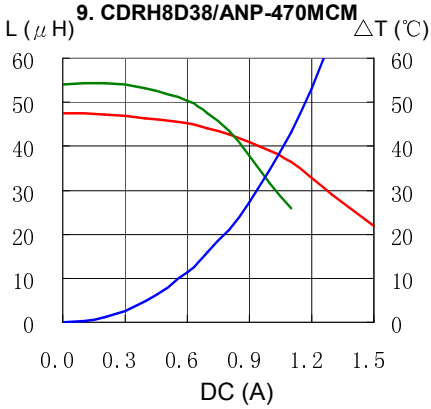
7. CDRH8D38/ANP-330MCM



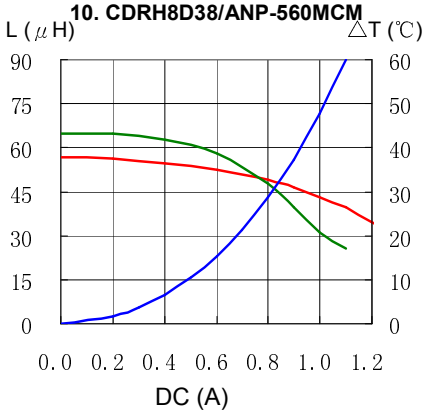
8. CDRH8D38/ANP-39OMCM



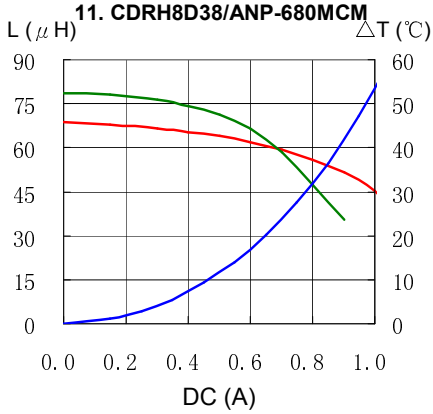
9. CDRH8D38/ANP-470MCM



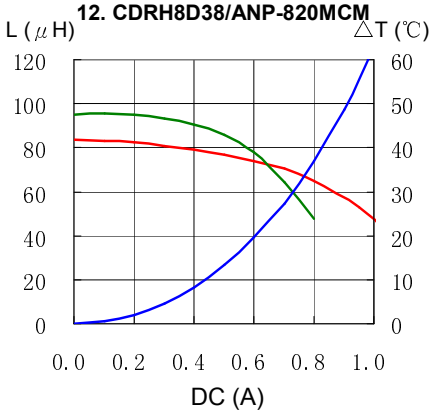
10. CDRH8D38/ANP-560MCM



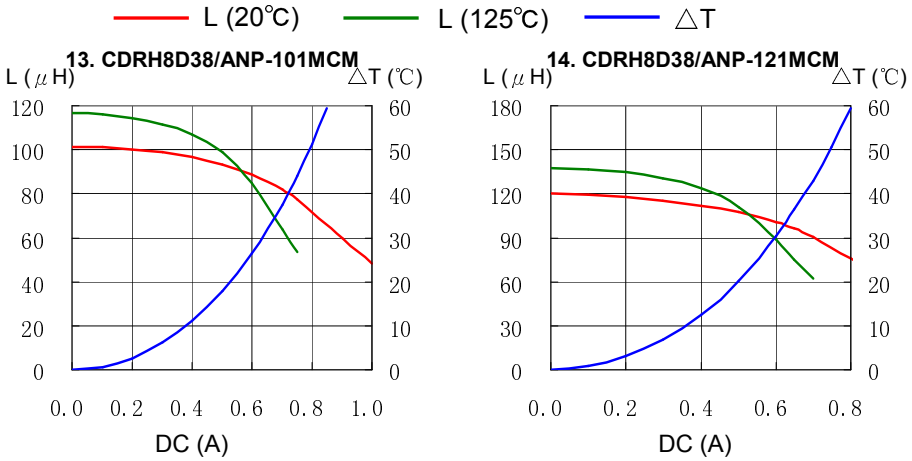
11. CDRH8D38/ANP-680MCM



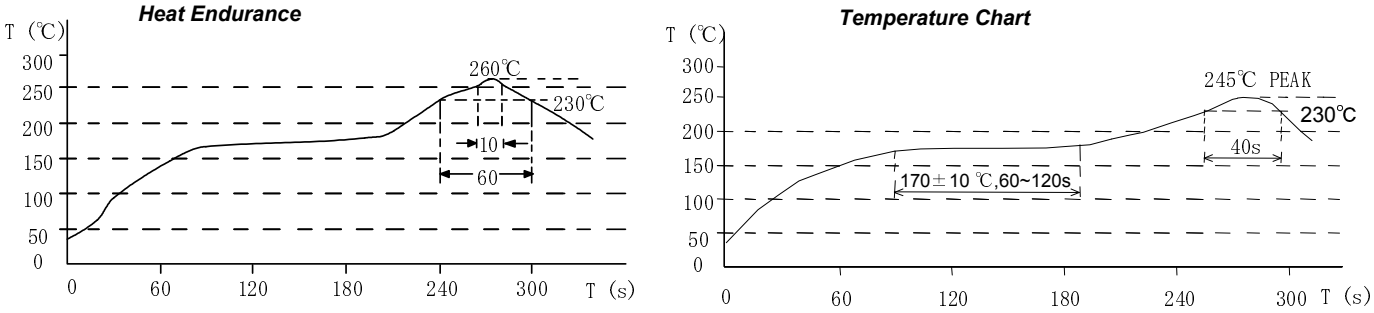
12. CDRH8D38/ANP-820MCM



Saturation Current & Temperature Rise Graph



Solder Reflow Condition



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