SMD Power Inductor
CDRH10D68/A

RoHS

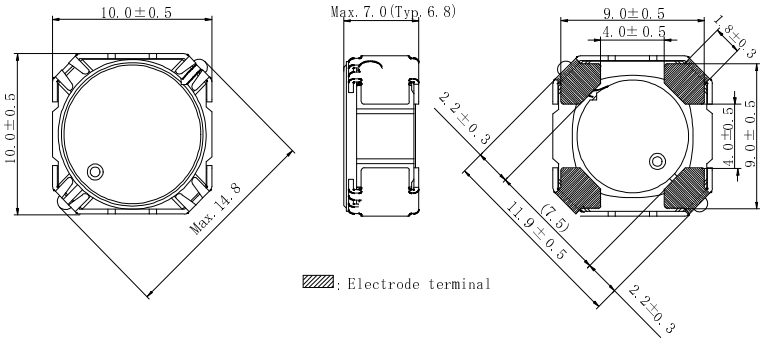
Description
- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 10.5 × 10.5 × 7.0 mm Max.
- Product weight: 2.6 g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Qualification to AEC-Q200.

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

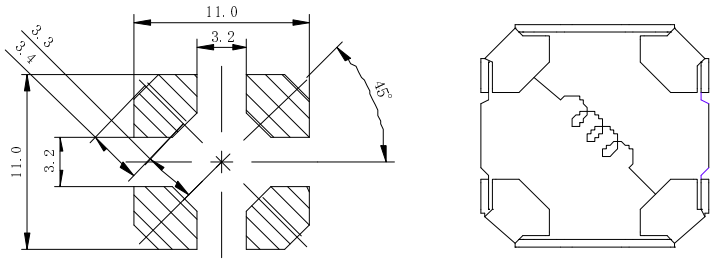
Packaging
- Carrier tape and reel packaging
- 13.0"diameter reel
- 500pcs per reel

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

Dimension - [mm]



Land pattern and Schematics - [mm]



Revised: 5-Aug-11

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sumida

Electrical Characteristics

Part Name	Stamp	Inductance (μH) ※1	D.C.R. (mΩ) [Max.] (Typ.) (at 20℃)	Rated current (A) (at 125℃) ※2
CDRH1ØD68/ANP-1ØØMC	100	10 μH±20%	26.3(21)	3.05
CDRH1ØD68/ANP-12ØMC	120	12 μH±20%	28.8(23)	2.80
CDRH1ØD68/ANP-15ØMC	150	15 μH±20%	35.0(28)	2.55
CDRH1ØD68/ANP-18ØMC	180	18 μH±20%	37.5(30)	2.42
CDRH1ØD68/ANP-22ØMC	220	22 μH±20%	51.3(41)	2.05
CDRH1ØD68/ANP-27ØMC	270	27 μH±20%	63.8(51)	1.90
CDRH1ØD68/ANP-33ØMC	330	33 μH±20%	80.0(64)	1.68
CDRH1ØD68/ANP-39ØMC	390	39 μH±20%	100(80)	1.50
CDRH1ØD68/ANP-47ØMC	470	47 μH±20%	125(100)	1.32
CDRH1ØD68/ANP-56ØMC	560	56 μH±20%	156(125)	1.24
CDRH1ØD68/ANP-68ØMC	680	68 μH±20%	191(153)	1.12
CDRH1ØD68/ANP-82ØMC	820	82 μH±20%	215(172)	1.03
CDRH1ØD68/ANP-1Ø1MC	101	100 μH±20%	250(200)	0.92
CDRH1ØD68/ANP-121MC	121	120 μH±20%	273(218)	0.88
CDRH1ØD68/ANP-151MC	151	150 μH±20%	359(287)	0.77
CDRH1ØD68/ANP-181MC	181	180 μH±20%	463(370)	0.70
CDRH1ØD68/ANP-221MC	221	220 μH±20%	590(472)	0.63
CDRH1ØD68/ANP-271MC	271	270 μH±20%	674(539)	0.58
CDRH1ØD68/ANP-331MC	331	330 μH±20%	740(592)	0.52
CDRH1ØD68/ANP-391MC	391	390 μH±20%	986(789)	0.47
CDRH1ØD68/ANP-471MC	471	470 μH±20%	1105(884)	0.45
CDRH1ØD68/ANP-561MC	561	560 μH±20%	1206(965)	0.40

※1 Measuring condition inductance at 100kHz.

※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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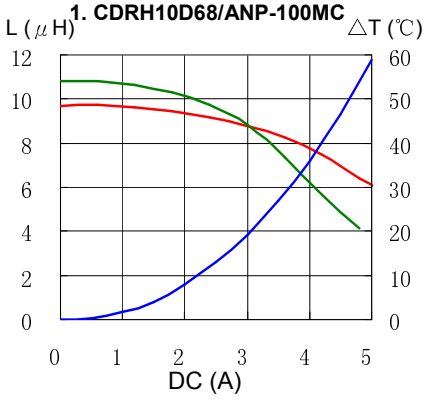
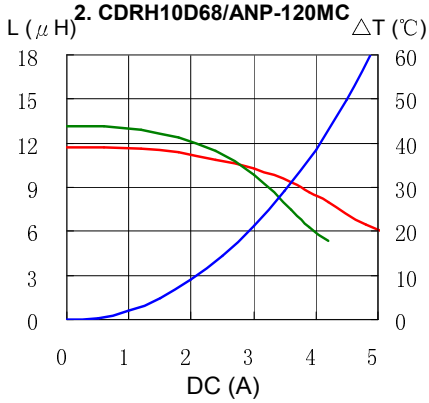
Saturation Current & Temperature Rise Graph

L (20℃) L (125℃) △T

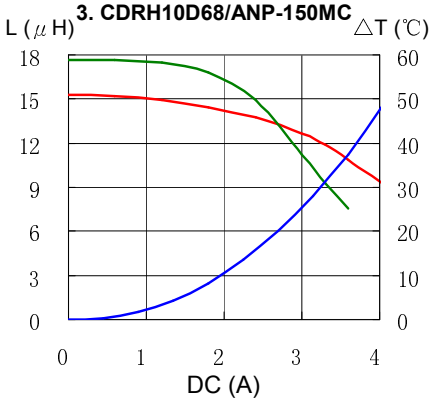
1. CDRH10D68/ANP-100MC



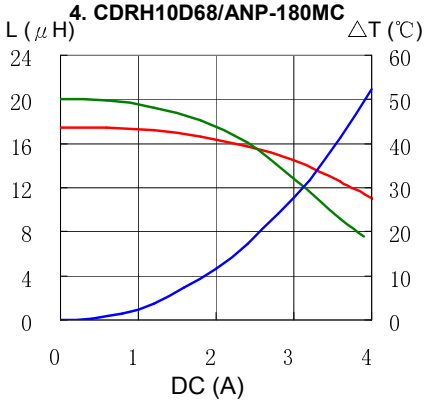
2. CDRH10D68/ANP-120MC



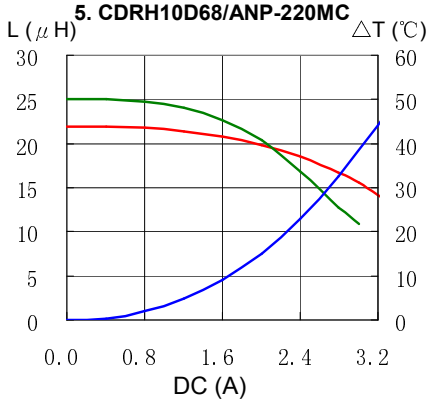
3. CDRH10D68/ANP-150MC



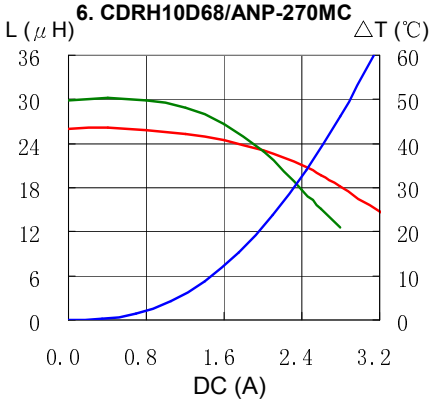
4. CDRH10D68/ANP-180MC



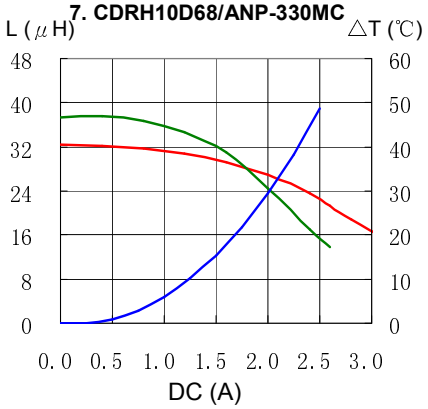
5. CDRH10D68/ANP-220MC



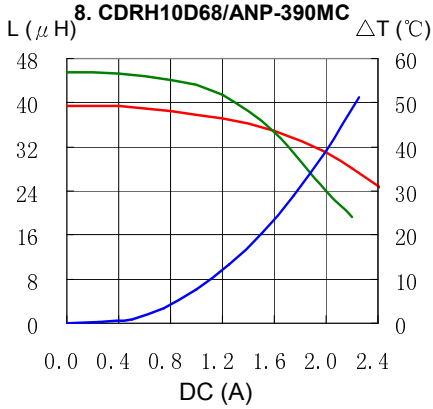
6. CDRH10D68/ANP-270MC



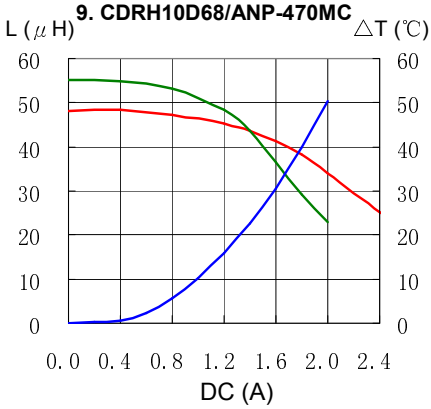
7. CDRH10D68/ANP-330MC



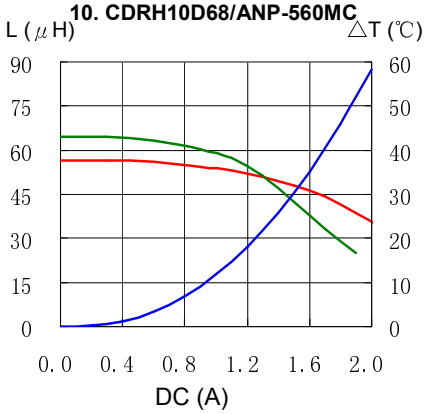
8. CDRH10D68/ANP-390MC



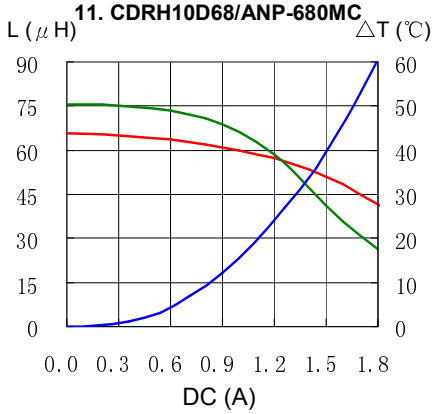
9. CDRH10D68/ANP-470MC



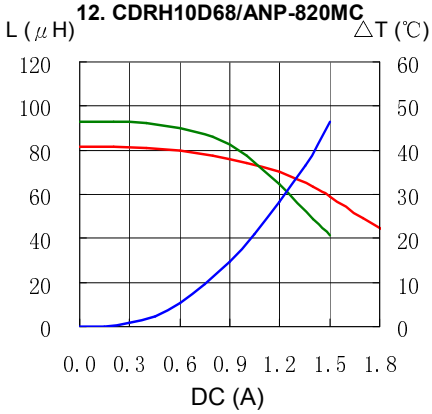
10. CDRH10D68/ANP-560MC



11. CDRH10D68/ANP-680MC



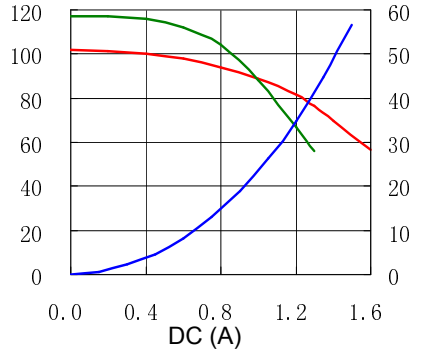
12. CDRH10D68/ANP-820MC



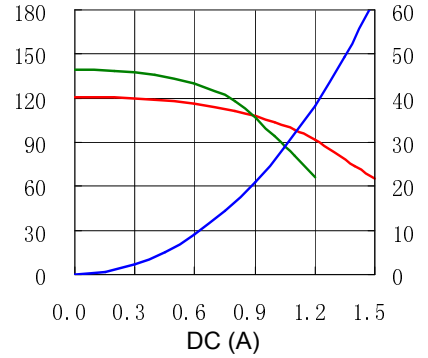
Saturation Current & Temperature Rise Graph

L (20℃) L (125℃) △T

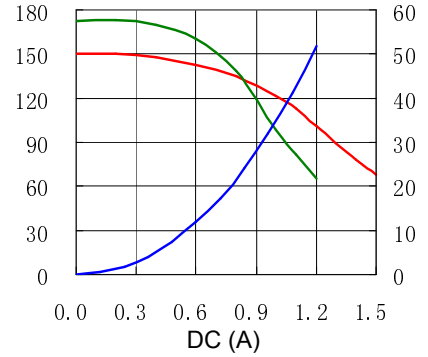
13. CDRH10D68/ANP-101MC



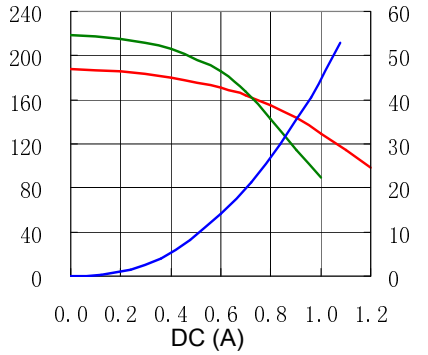
14. CDRH10D68/ANP-121MC



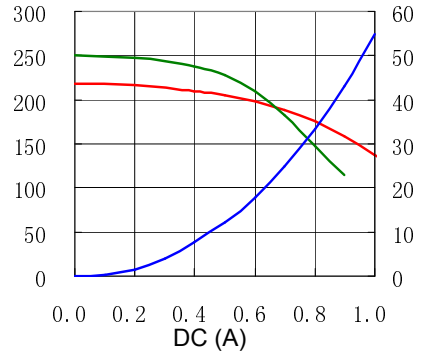
15. CDRH10D68/ANP-151MC



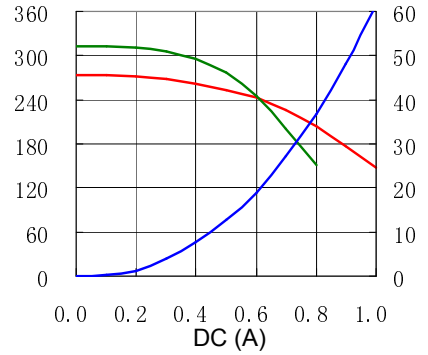
16. CDRH10D68/ANP-181MC



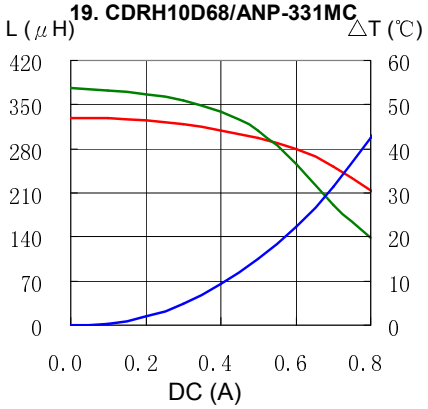
17. CDRH10D68/ANP-221MC



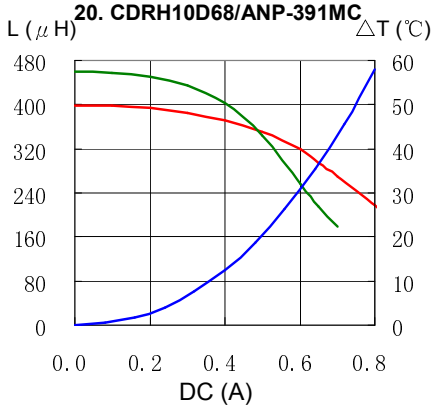
18. CDRH10D68/ANP-271MC



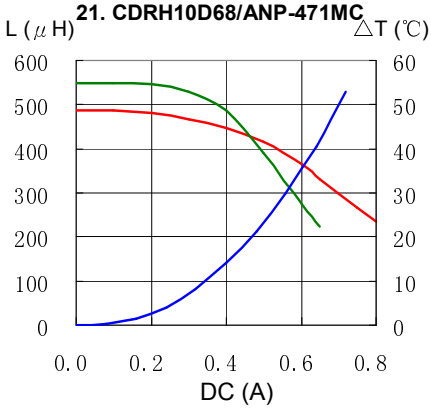
19. CDRH10D68/ANP-331MC



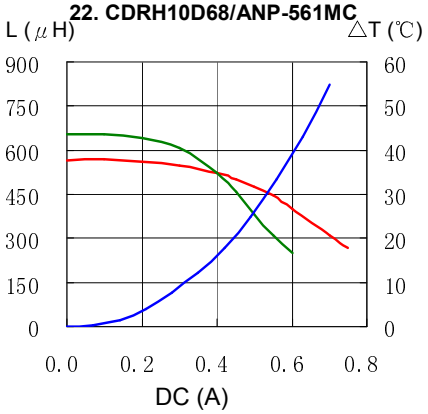
20. CDRH10D68/ANP-391MC



21. CDRH10D68/ANP-471MC

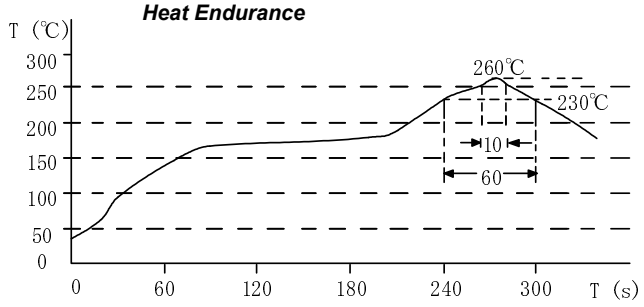


22. CDRH10D68/ANP-561MC

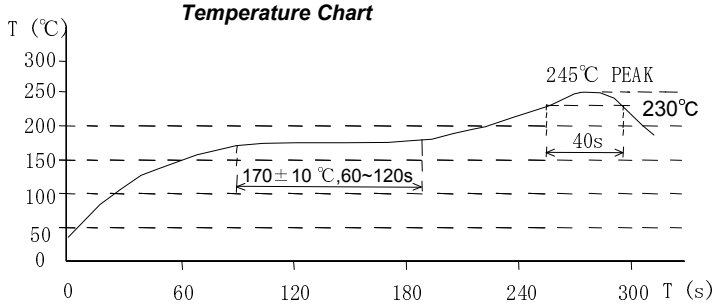


Solder Reflow Condition

Heat Endurance



Temperature Chart



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