SMD Power Inductor
CDRH10D48/A

RoHS

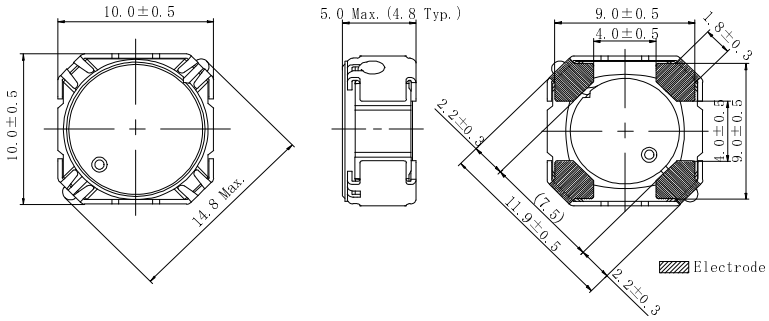
Description
- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 10.5 × 10.5 × 5.0 mm Max.
- Product weight: 1.8 g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Qualification to AEC-Q200.

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

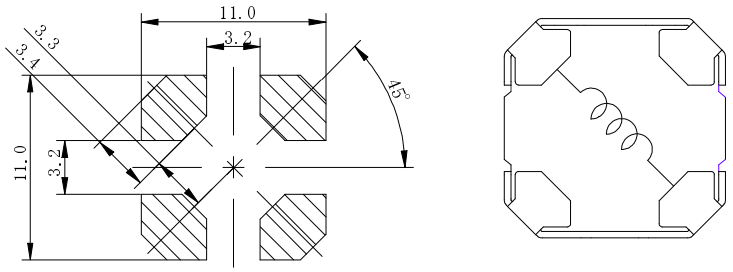
Packaging
- Carrier tape and reel packaging.
- 11.8"diameter reel
- 500pcs per reel

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

Dimension - [mm]



Land pattern and Schematics - [mm]



Revised: 22-Mar-13

Electrical Characteristics

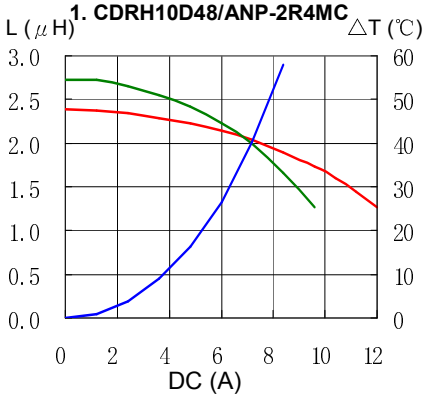
Part No.	Stamp	Inductance [μH] [within] ※1	D.C.R. (mΩ) [Max.] (Typ.) (at 20℃)	Rated current (A) ※2
CDRH1ØD48/ANP-2R4MC	2R4	2.4 μH±20%	12(9)	5.2
CDRH1ØD48/ANP-3R4MC	3R4	3.4 μH±20%	13(10)	4.8
CDRH1ØD48/ANP-4R3MC	4R3	4.3 μH±20%	15(12)	4.3
CDRH1ØD48/ANP-5R8MC	5R8	5.8 μH±20%	24(19)	3.8
CDRH1ØD48/ANP-7R2MC	7R2	7.2 μH±20%	29(23)	2.9
CDRH1ØD48/ANP-8R7MC	8R7	8.7 μH±20%	37(29)	2.7
CDRH1ØD48/ANP-1ØØMC	100	10 μH±20%	40(32)	2.6
CDRH1ØD48/ANP-12ØMC	120	12 μH±20%	44(35)	2.5
CDRH1ØD48/ANP-15ØMC	150	15 μH±20%	49(39)	2.3
CDRH1ØD48/ANP-18ØMC	180	18 μH±20%	62(49)	2.2
CDRH1ØD48/ANP-22ØMC	220	22 μH±20%	70(56)	1.9
CDRH1ØD48/ANP-27ØMC	270	27 μH±20%	90(72)	1.7
CDRH1ØD48/ANP-33ØMC	330	33 μH±20%	113(90)	1.5
CDRH1ØD48/ANP-39ØMC	390	39 μH±20%	127(101)	1.4
CDRH1ØD48/ANP-47ØMC	470	47 μH±20%	138(110)	1.3
CDRH1ØD48/ANP-56ØMC	560	56 μH±20%	172(137)	1.2
CDRH1ØD48/ANP-68ØMC	680	68 μH±20%	209(167)	1.1
CDRH1ØD48/ANP-82ØMC	820	82 μH±20%	268(214)	0.97
CDRH1ØD48/ANP-1Ø1MC	101	100 μH±20%	294(235)	0.92
CDRH1ØD48/ANP-121MC	121	120 μH±20%	374(299)	0.82
CDRH1ØD48/ANP-151MC	151	150 μH±20%	437(349)	0.77
CDRH1ØD48/ANP-181MC	181	180 μH±20%	558(446)	0.65
CDRH1ØD48/ANP-221MC	221	220 μH±20%	637(509)	0.61
CDRH1ØD48/ANP-271MC	271	270 μH±20%	839(671)	0.53
CDRH1ØD48/ANP-331MC	331	330 μH±20%	938(750)	0.49

※1. Measuring condition: at 100 kHz.
※2. The value of current when the inductance decrease to 65% of it's nominal value or DC current when △T=30℃ whichever is lower .(Ta=125℃)

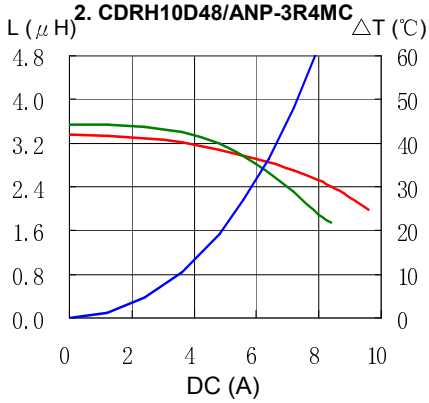
Saturation Current & Temperature Rise Graph

L (20℃) L (125℃) △T

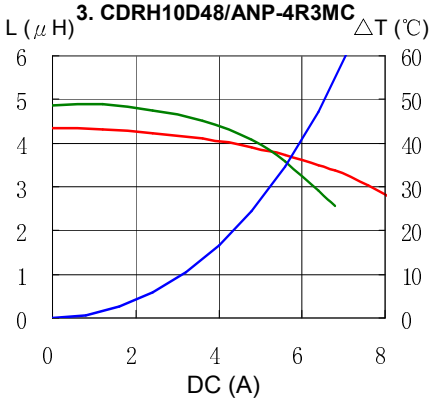
1. CDRH10D48/ANP-2R4MC



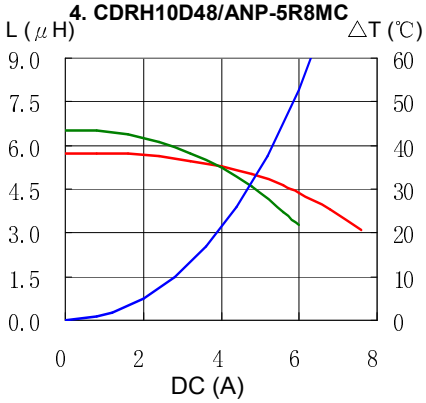
2. CDRH10D48/ANP-3R4MC



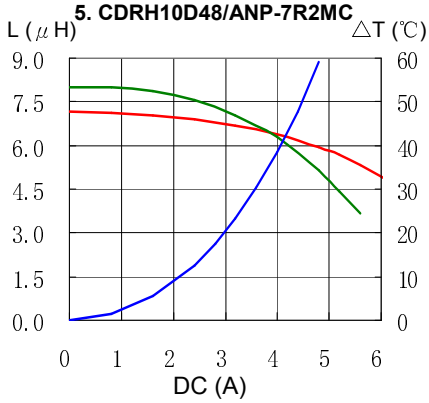
3. CDRH10D48/ANP-4R3MC



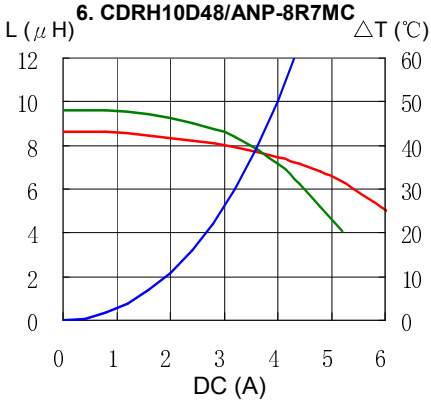
4. CDRH10D48/ANP-5R8MC



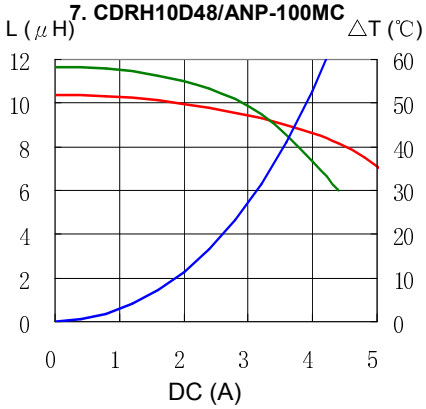
5. CDRH10D48/ANP-7R2MC



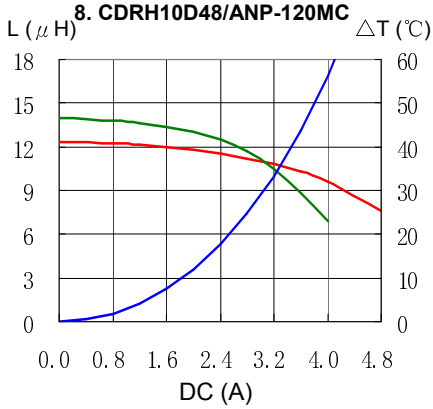
6. CDRH10D48/ANP-8R7MC



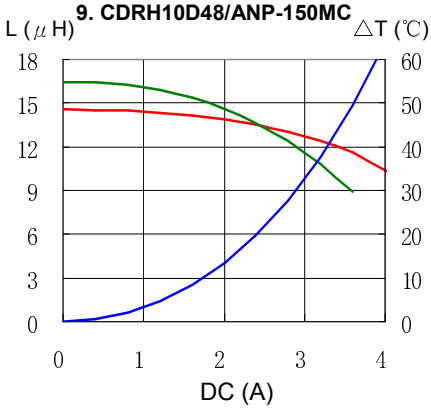
7. CDRH10D48/ANP-100MC



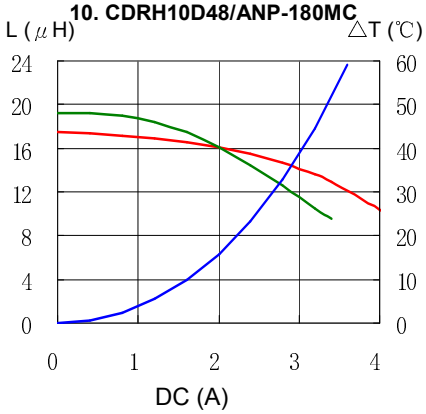
8. CDRH10D48/ANP-120MC



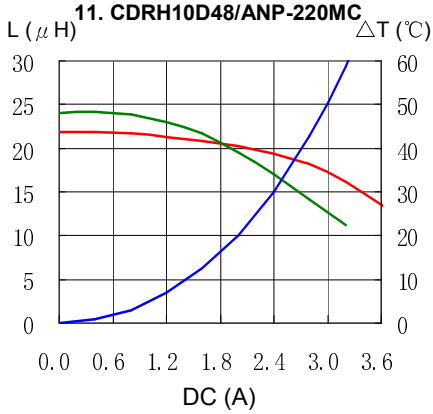
9. CDRH10D48/ANP-150MC



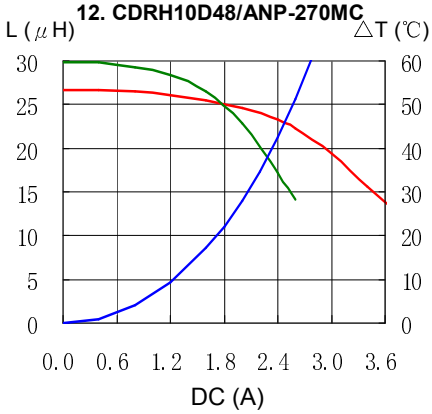
10. CDRH10D48/ANP-180MC



11. CDRH10D48/ANP-220MC

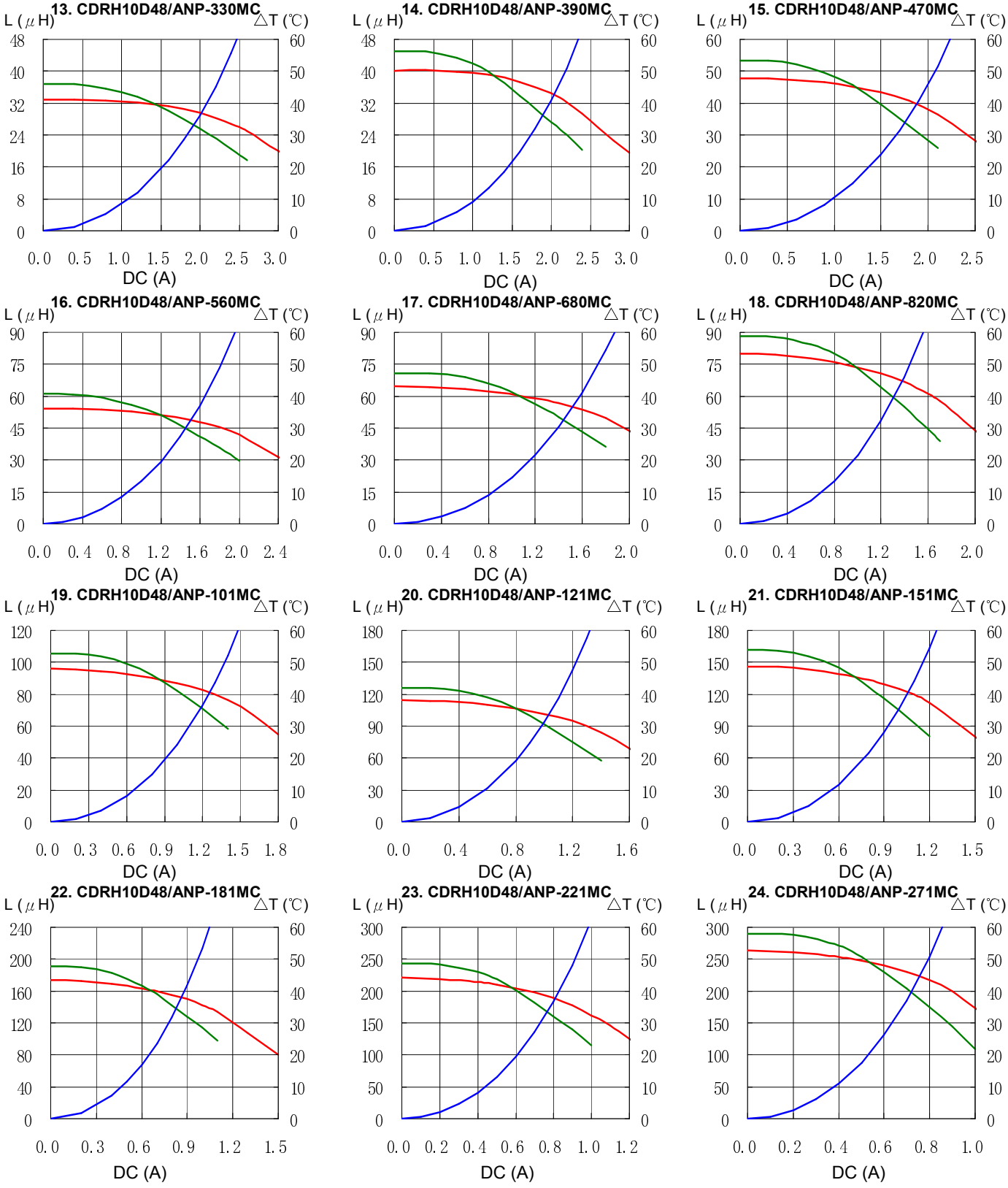


12. CDRH10D48/ANP-270MC

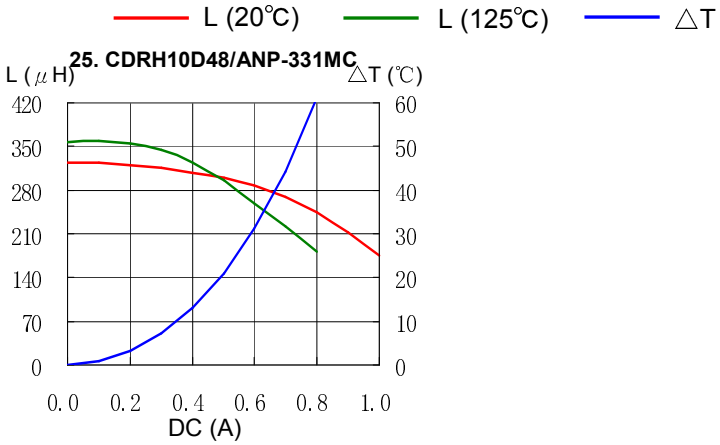


Saturation Current & Temperature Rise Graph

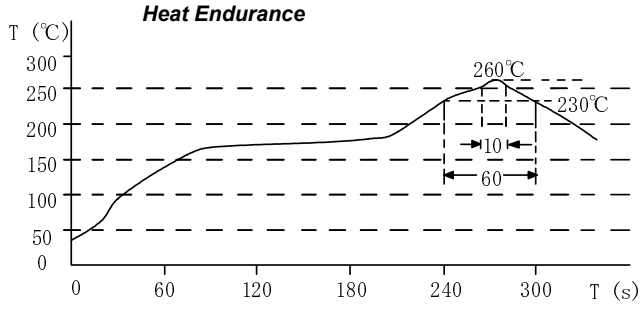
L (20℃) L (125℃) △T

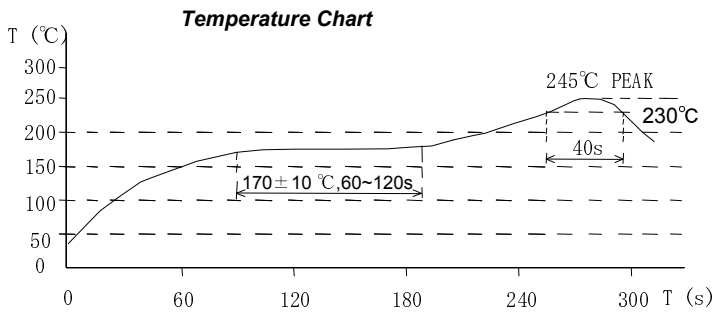


Saturation Current & Temperature Rise Graph



Solder Reflow Condition





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