

Pin type Power Inductor

RCH-855



Description

- Ferrite drum core construction.
- Magnetically unshielded.
- LxWxH: 8.3x8.3x5.5mm Max.
- Product weight: 0.9 g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.



Applications

- Ideally used in Printers, LCD TV, DVD, Copy Machine, Main board of the compounding machines etc. as DC-DC Converter inductors.

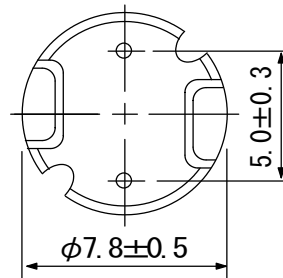
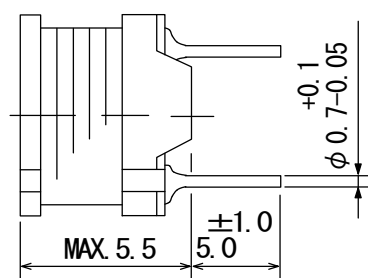
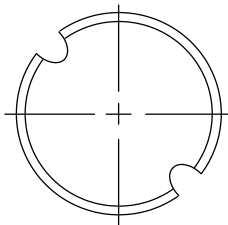
Environmental Data

- Operating temperature range: -40°C~+100°C
(including coil's self temperature rise)
- Storage temperature range: -40°C~+100°C

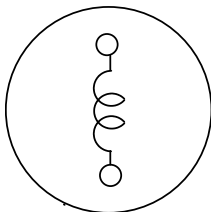
Packaging

- Box packaging .

Dimensions - [mm]



Schematics- [mm]



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Electrical Characteristics

PART NO.	STAMP	INDUCTANCE <WITHIN> ※1	D.C.R <MAX.>(Ω) (at20°C)	Saturation current (A)※2 Max.(Typ.)(at 20°C)	Temperature rise current (A)※3 Typ.
RCH855NP-2R5M	2R5M	2.5 μH±20%	23m	4.50(5.50)	4.20
RCH855NP-3R3M	3R3M	3.3 μH±20%	26m	4.00(4.70)	4.00
RCH855NP-4R1M	4R1M	4.1 μH±20%	31m	3.60(4.30)	3.80
RCH855NP-5R0M	5R0M	5.0 μH±20%	34m	3.40(3.90)	3.65
RCH855NP-5R9M	5R9M	5.9 μH±20%	39m	3.20(3.50)	3.45
RCH855NP-6R8M	6R8M	6.8 μH±20%	42m	2.90(3.25)	3.40
RCH855NP-8R2M	8R2M	8.2 μH±20%	45m	2.70(3.00)	3.20
RCH855NP-100M	100M	10 μH±20%	0.07	2.50(2.80)	2.68
RCH855NP-120M	120M	12 μH±20%	0.08	2.40(2.60)	2.45
RCH855NP-150M	150M	15 μH±20%	0.09	2.10(2.30)	2.30
RCH855NP-180M	180M	18 μH±20%	0.10	2.00(2.20)	2.25
RCH855NP-220K	220K	22 μH±10%	0.12	1.70(1.90)	1.95
RCH855NP-270K	270K	27 μH±10%	0.14	1.50(1.70)	1.72
RCH855NP-330K	330K	33 μH±10%	0.17	1.40(1.55)	1.70
RCH855NP-390K	390K	39 μH±10%	0.21	1.30(1.40)	1.55
RCH855NP-470K	470K	47 μH±10%	0.24	1.20(1.29)	1.32
RCH855NP-560K	560K	56 μH±10%	0.31	1.10(1.20)	1.09
RCH855NP-680K	680K	68 μH±10%	0.34	1.00(1.10)	1.06
RCH855NP-820K	820K	82 μH±10%	0.40	0.93(0.98)	0.98
RCH855NP-101K	101K	100 μH±10%	0.52	0.81(0.88)	0.88
RCH855NP-121K	121K	120 μH±10%	0.59	0.76(0.80)	0.80
RCH855NP-151K	151K	150 μH±10%	0.71	0.67(0.72)	0.73
RCH855NP-181K	181K	180 μH±10%	0.89	0.62(0.66)	0.65
RCH855NP-221K	221K	220 μH±10%	1.04	0.54(0.60)	0.63
RCH855NP-271K	271K	270 μH±10%	1.28	0.49(0.53)	0.51
RCH855NP-331K	331K	330 μH±10%	1.47	0.44(0.48)	0.46
RCH855NP-391K	391K	390 μH±10%	1.67	0.41(0.45)	0.44
RCH855NP-471K	471K	470 μH±10%	1.95	0.38(0.42)	0.43
RCH855NP-561K	561K	560 μH±10%	2.83	0.35(0.38)	0.35
RCH855NP-681K	681K	680 μH±10%	3.25	0.32(0.34)	0.34
RCH855NP-821K	821	820 μH±10%	3.82	0.28(0.31)	0.32
RCH855NP-102K	102K	1.0mH±10%	5.28	0.25(0.28)	0.26

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RCH855NP-122K	122K	1.2mH±10%	6.03	0.23(0.26)	0.25
RCH855NP-152K	152K	1.5mH±10%	7.15	0.21(0.23)	0.24
RCH855NP-182K	182K	1.8mH±10%	8.26	0.20(0.22)	0.23
RCH855NP-222K	222K	2.2mH±10%	11.1	0.18(0.20)	0.20
RCH855NP-272K	272K	2.7mH±10%	13.1	0.16(0.18)	0.18
RCH855NP-332K	332K	3.3mH±10%	15.9	0.14(0.16)	0.16
RCH855NP-392K	392K	3.9mH±10%	18.0	0.13(0.14)	0.16
RCH855NP-472K	472K	4.7mH±10%	23.9	0.12(0.13)	0.15
RCH855NP-562K	562K	5.6mH±10%	26.8	0.11(0.12)	0.13
RCH855NP-682K	682K	6.8mH±10%	31.7	98m(0.11)	0.13
RCH855NP-822K	822K	8.2mH±10%	46.5	88m(0.10)	0.11
RCH855NP-103K	103K	10mH±10%	55.7	81m(91m)	98m

※1 MEASURED FREQUENCY INDUCTANCE : 2.5μH~ 8.2μH at 7.96MHz
 10μH ~ 82μH at 2.52MHz
 100μH ~ 10mH at 1 kHz

※2 Saturation current: This indicates the value of DC current when the inductance is 10% lower than its initial value.

※3 Temperature rise current: The value of DC current when coil's self temperature rise is ΔT=40°C. (Ta=20°C)

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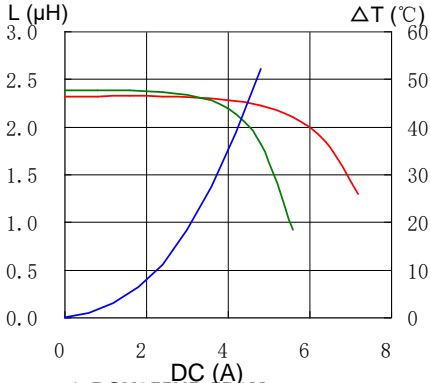
RCH-855



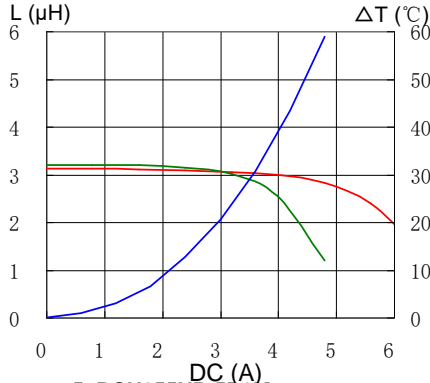
Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

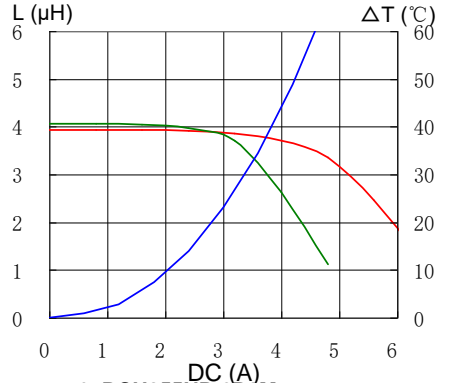
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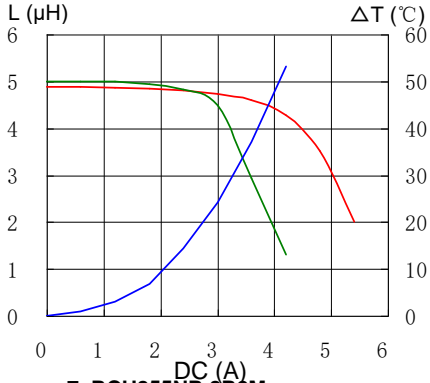
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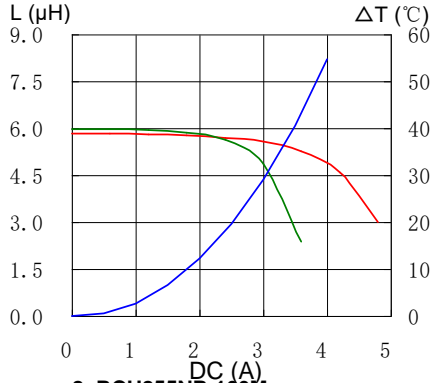
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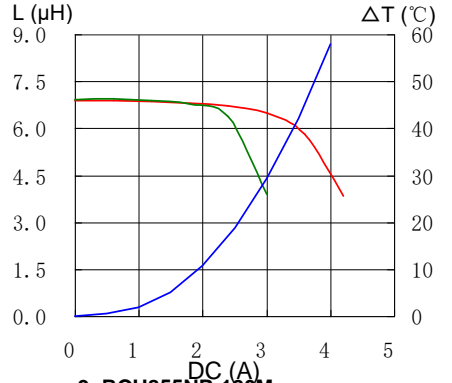
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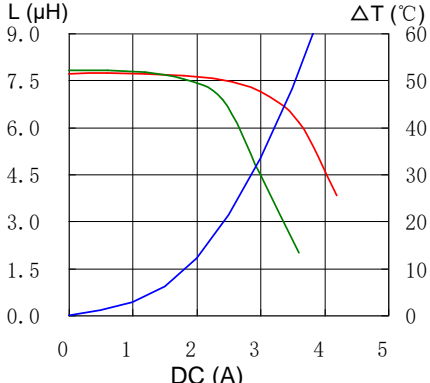
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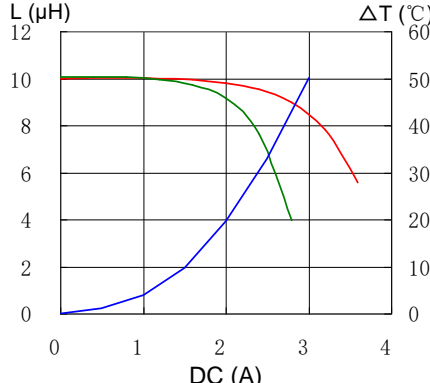
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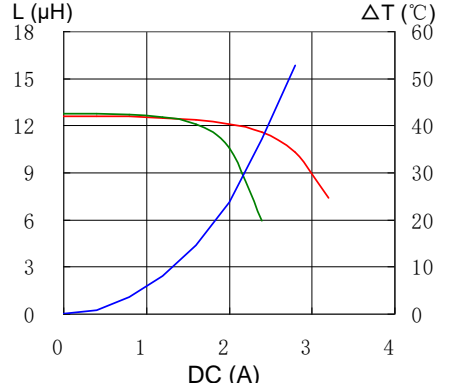
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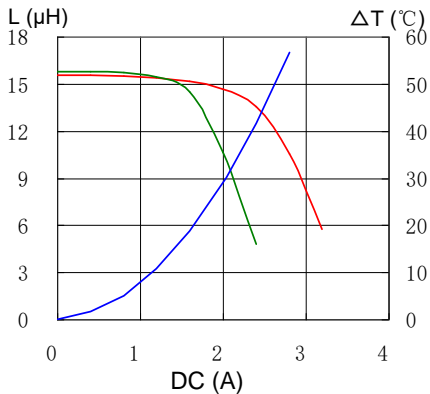
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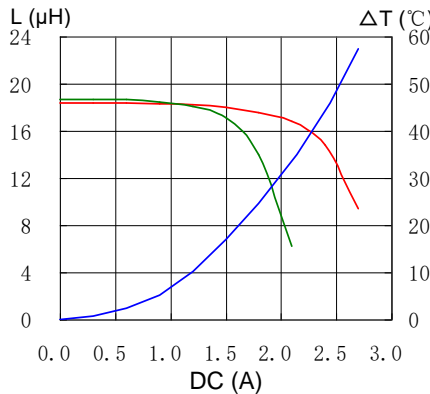
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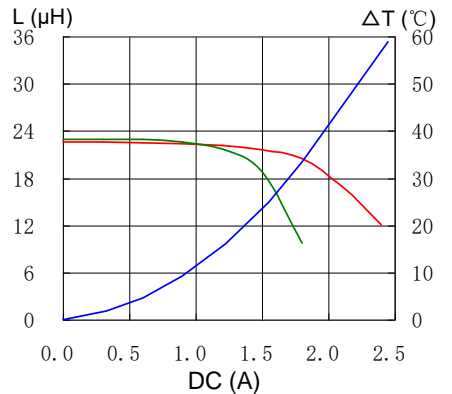
10. RCH855NP-150M



11. RCH855NP-180M



12. RCH855NP-220K



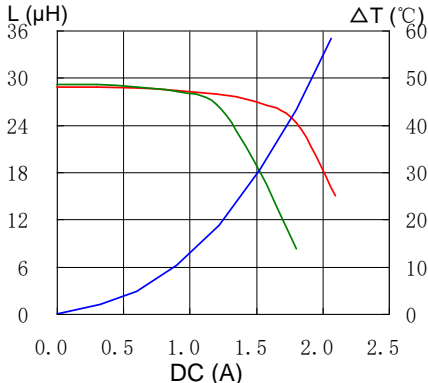
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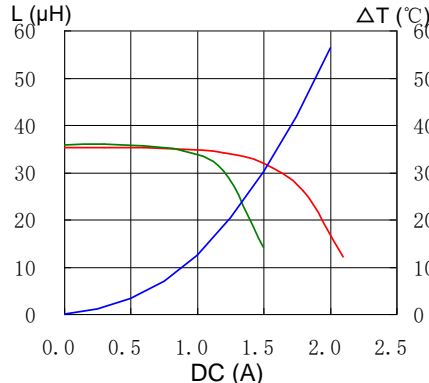
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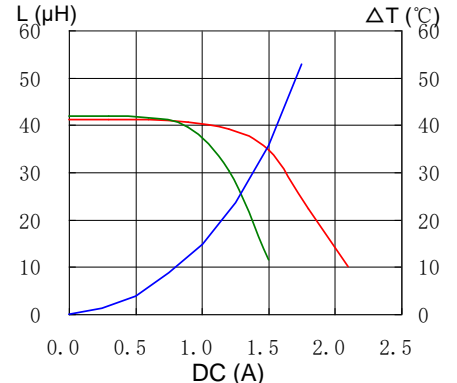
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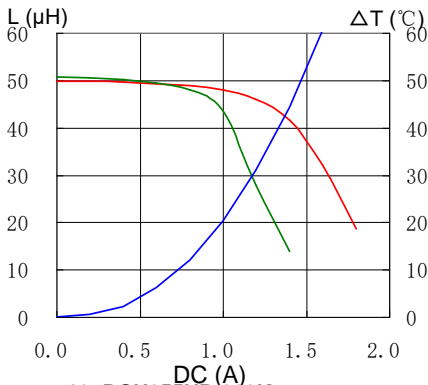
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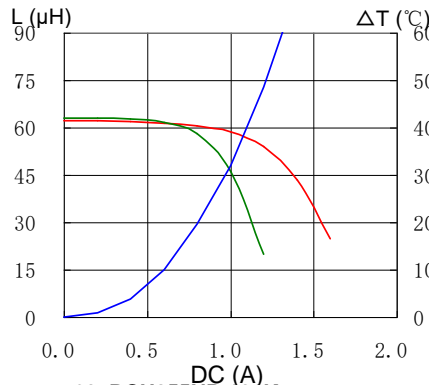
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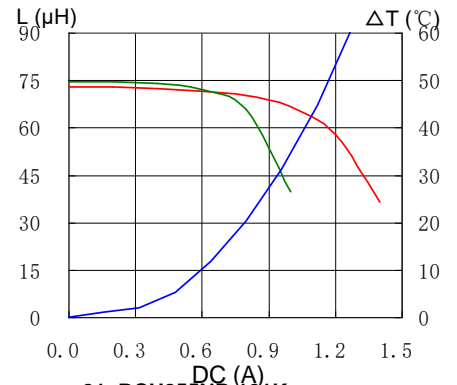
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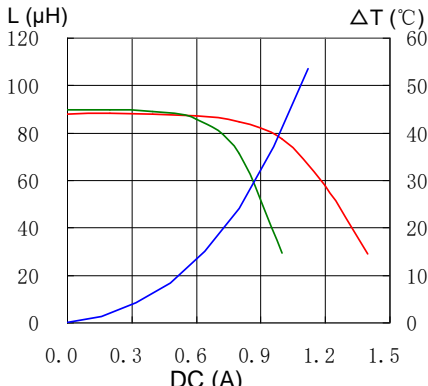
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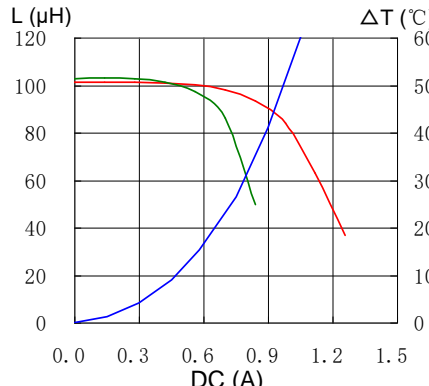
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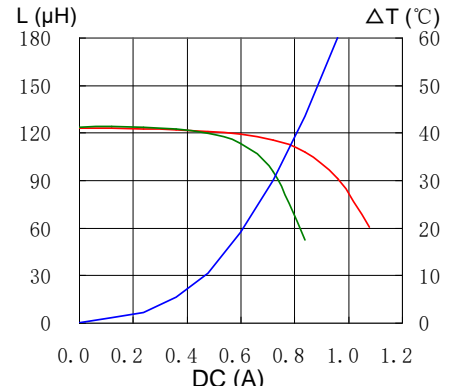
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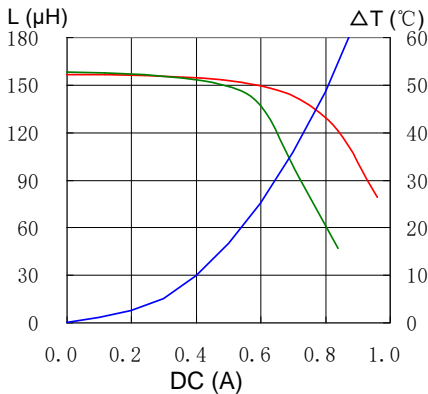
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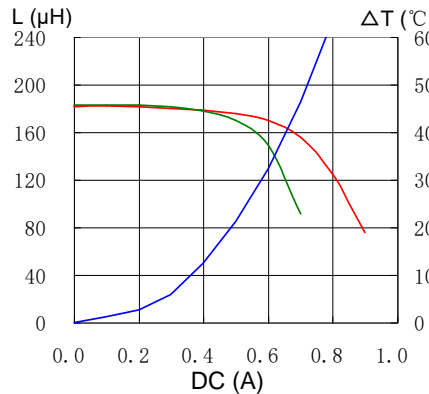
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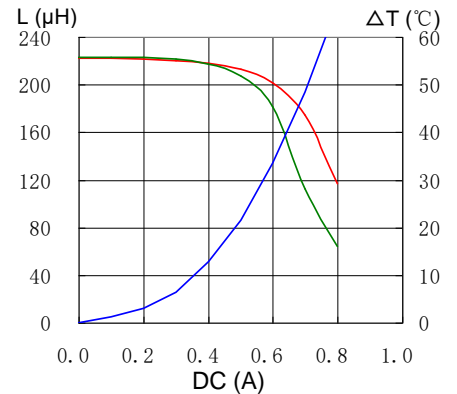
22. RCH855NP-151K



23. RCH855NP-181K



24. RCH855NP-221K



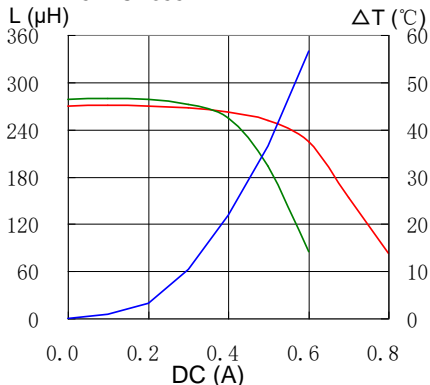
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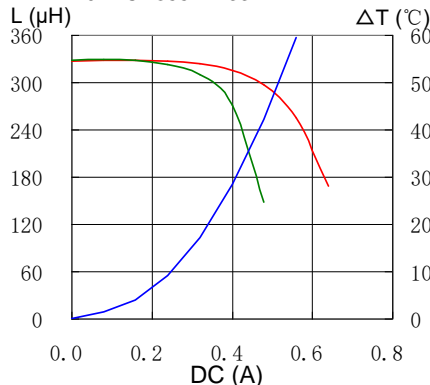
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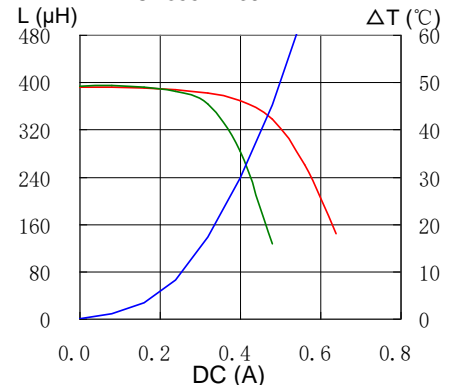
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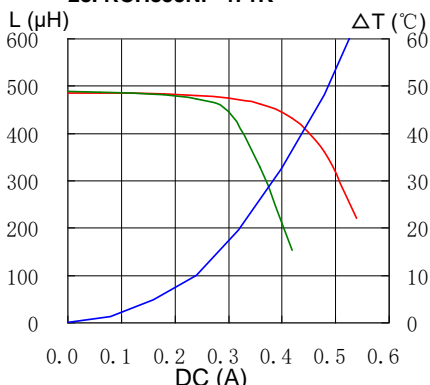
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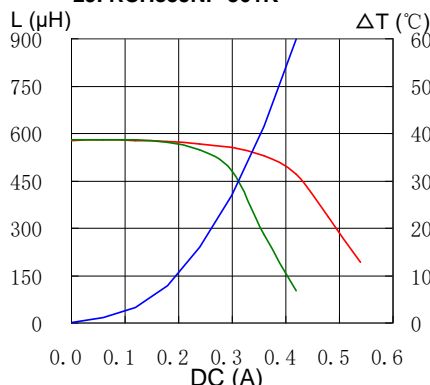
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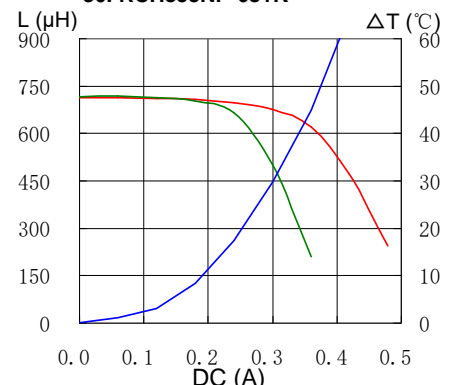
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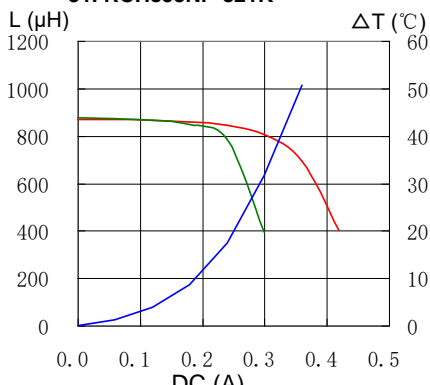
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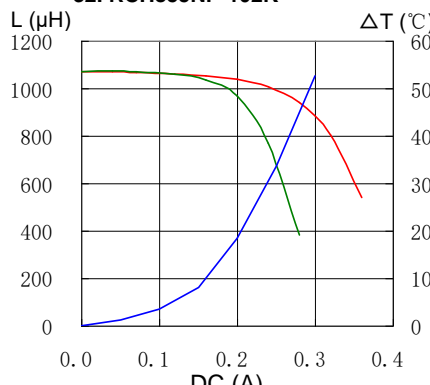
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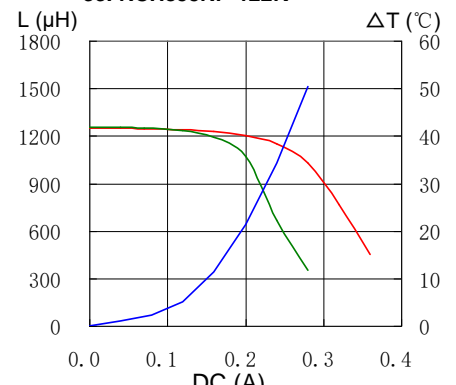
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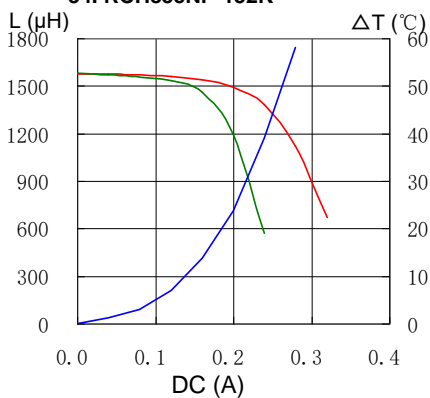
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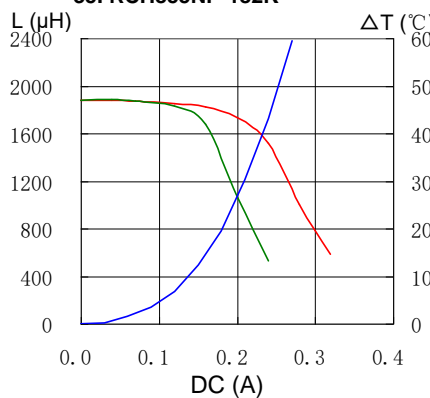
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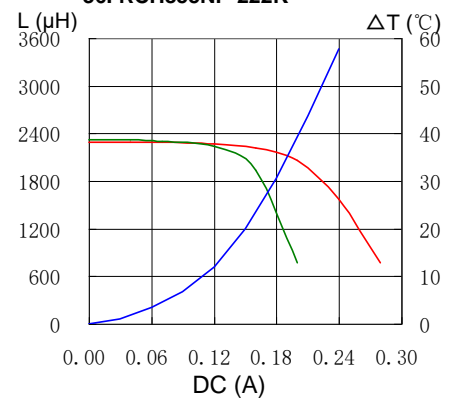
34. RCH855NP-152K



35. RCH855NP-182K



36. RCH855NP-222K



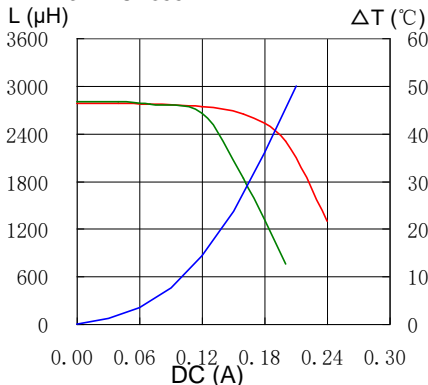
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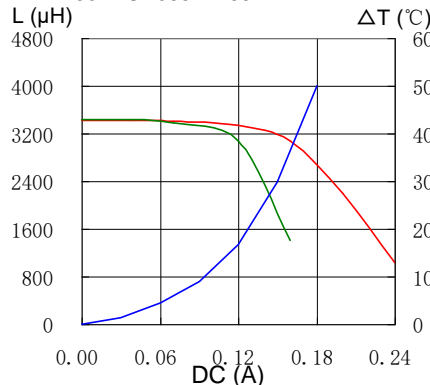
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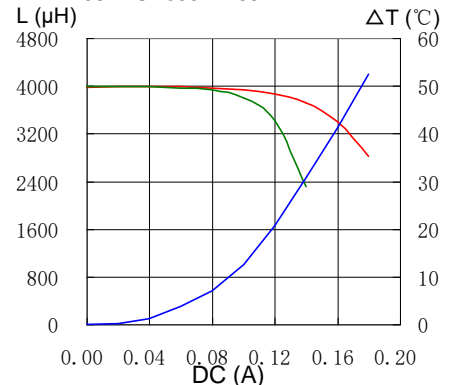
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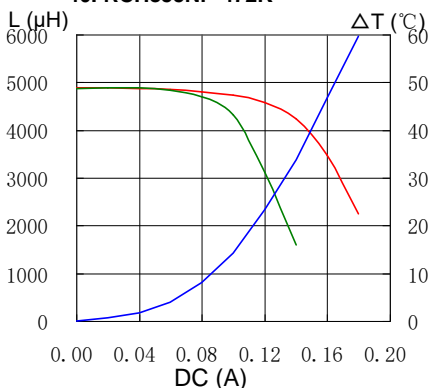
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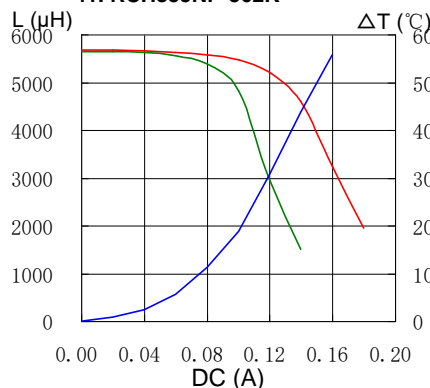
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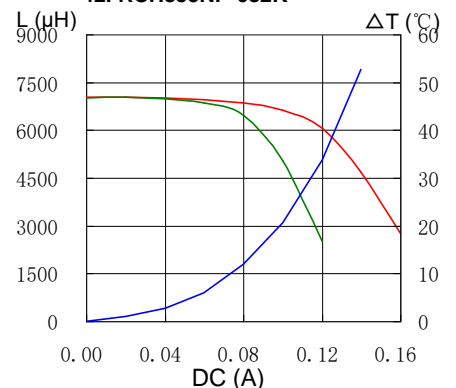
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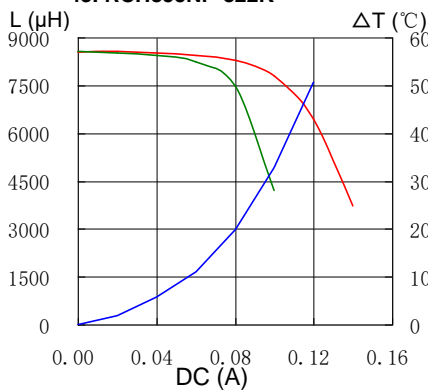
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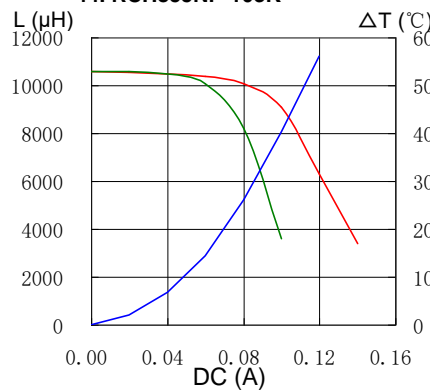
42. RCH855NP-682K



43. RCH855NP-822K



44. RCH855NP-103K



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