PIN Power Inductor
RCH1216B



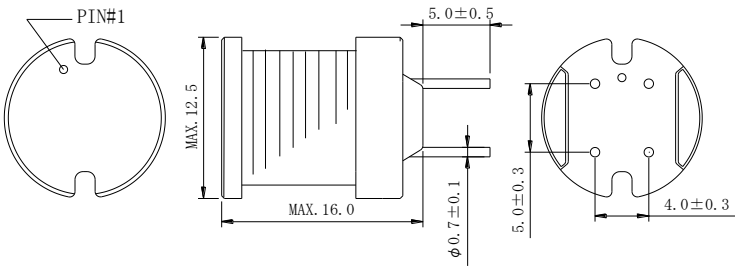
Description
- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 12.5 × 12.5 × 16.0mm Max.
- Product weight: 5.2g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data
- Operating temperature range: -30℃～+100℃ (including coil's self temperature rise)
- Storage temperature range: -30℃～+100℃

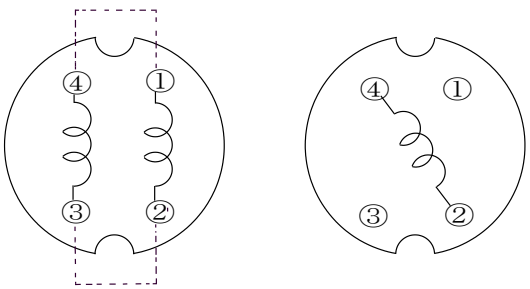
Packaging
- Box packaging.

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

Dimension - [mm]



Schematics - [mm]



(10μH～47μH) (56μH～2.2mH)

Revised: 19-Feb-24

Electrical Characteristics

PART NO.	STAMP	INDUCTANCE [WITHIN] ※1	D.C.R. [MAX.](Ω) at 20℃	DC SUPERPOSITION PERMISSION CURRENT (A)※2		TEMPERATURE RISE CURRENT (A) ※3
				at 20℃	at 100℃	
RCH1216BNP-100M	100M	10μH ±20%	24m(19m)	9.00	8.00	5.00
RCH1216BNP-120M	120M	12μH ±20%	26m(21m)	7.80	7.00	4.60
RCH1216BNP-150M	150M	15μH ±20%	29m(23m)	7.20	6.20	4.40
RCH1216BNP-180M	180M	18μH ±20%	33m(26m)	6.75	5.80	4.20
RCH1216BNP-220M	220M	22μH ±20%	37m(29m)	6.00	5.30	4.00
RCH1216BNP-270M	270M	27μH ±20%	41m(32m)	5.50	4.80	3.80
RCH1216BNP-330M	330M	33μH ±20%	46m(36m)	5.00	4.50	3.60
RCH1216BNP-390M	390M	39μH ±20%	49m(39m)	4.70	4.10	3.30
RCH1216BNP-470M	470M	47μH ±20%	56m(44m)	4.30	3.80	3.20
RCH1216BNP-560K	560K	56μH ±10%	87m(69m)	4.10	3.70	2.70
RCH1216BNP-680K	680K	68μH ±10%	98m(78m)	3.80	3.30	2.40
RCH1216BNP-820K	820K	82μH ±10%	107m(85m)	3.20	2.90	2.25
RCH1216BNP-101K	101K	100μH ±10%	121m(96m)	3.00	2.70	2.15
RCH1216BNP-121K	121K	120μH ±10%	134m(107m)	2.85	2.60	2.05
RCH1216BNP-151K	151K	150μH ±10%	156m(124m)	2.55	2.35	1.90
RCH1216BNP-181K	181K	180μH ±10%	206m(164m)	2.20	2.05	1.65
RCH1216BNP-221K	221K	220μH±10%	236m(188m)	2.00	1.85	1.55
RCH1216BNP-271K	271K	270μH±10%	0.32(0.25)	1.85	1.70	1.40
RCH1216BNP-331K	331K	330μH±10%	0.37(0.29)	1.65	1.53	1.30
RCH1216BNP-391K	391K	390μH±10%	0.48(0.38)	1.55	1.35	1.05
RCH1216BNP-471K	471K	470μH±10%	0.55(0.44)	1.45	1.25	1.00
RCH1216BNP-561K	561K	560μH±10%	0.62(0.49)	1.36	1.18	0.95
RCH1216BNP-681K	681K	680μH±10%	0.79(0.63)	1.20	1.06	0.82
RCH1216BNP-821K	821K	820μH±10%	0.88(0.70)	1.14	0.97	0.75
RCH1216BNP-102K	102K	1.0mH ±10%	1.13(0.90)	1.00	0.80	0.65
RCH1216BNP-122K	122K	1.2mH ±10%	1.25(1.00)	0.89	0.76	0.61
RCH1216BNP-152K	152K	1.5mH ±10%	1.52(1.26)	0.85	0.70	0.54
RCH1216BNP-182K	182K	1.8mH ±10%	1.93(1.60)	0.76	0.63	0.46
RCH1216BNP-222K	222K	2.2mH ±10%	2.52(2.10)	0.65	0.57	0.41

※1. Inductance measuring condition: at 1kHz.

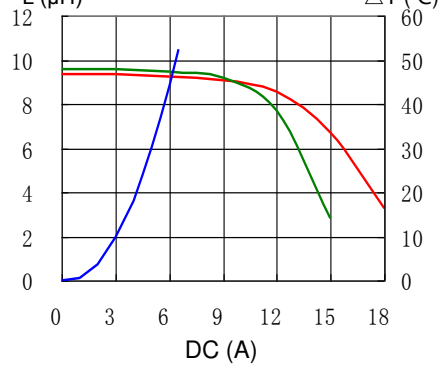
※2. Saturation current: The value of D.C. current when the inductance decreases to 90% of it's nominal value.

※3. Temperature rise current: The value of D.C. current when the temperature rise is △t=40℃(Ta=20℃).

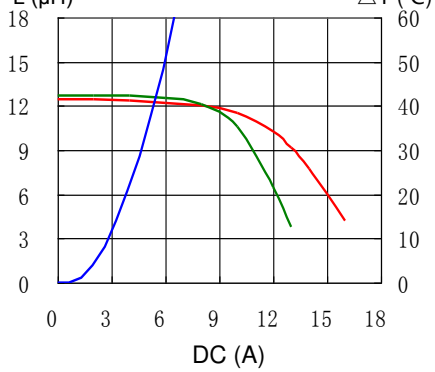
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

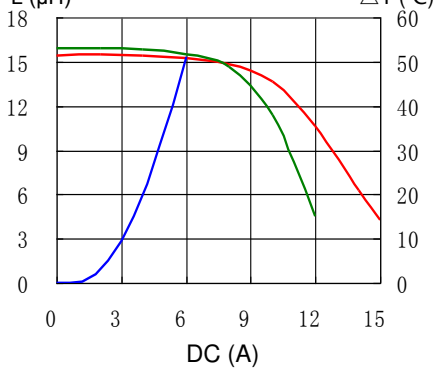
1. RCH1216BNP-100M



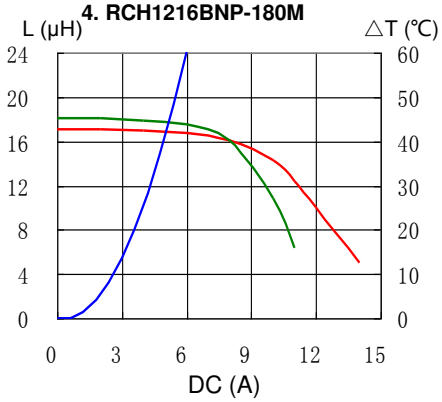
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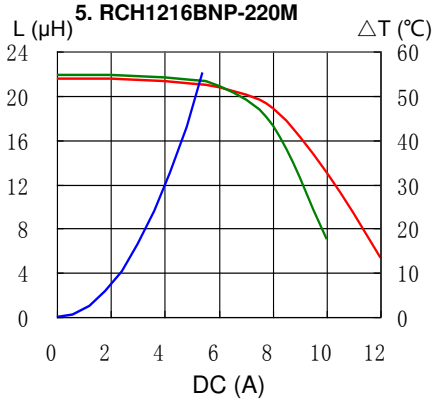
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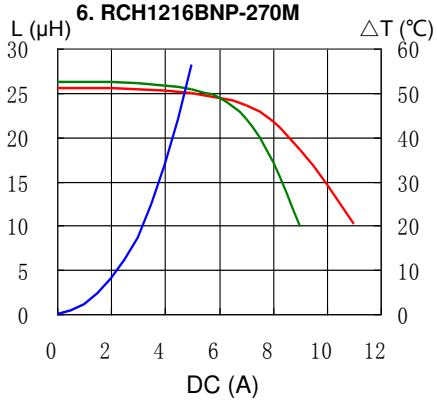
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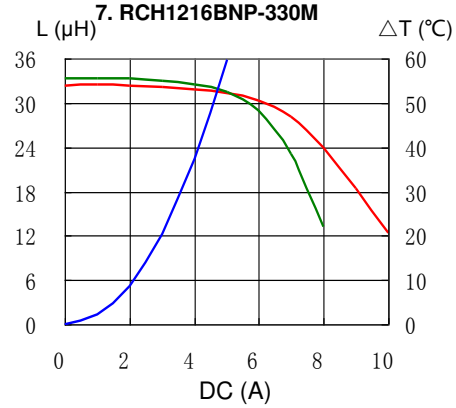
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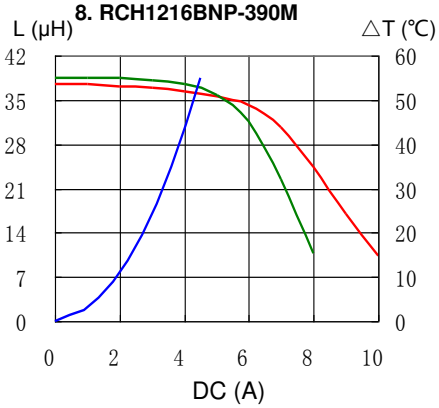
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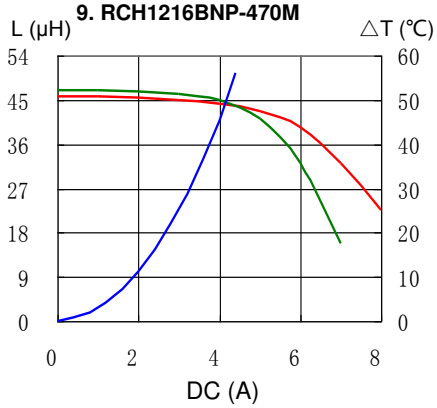
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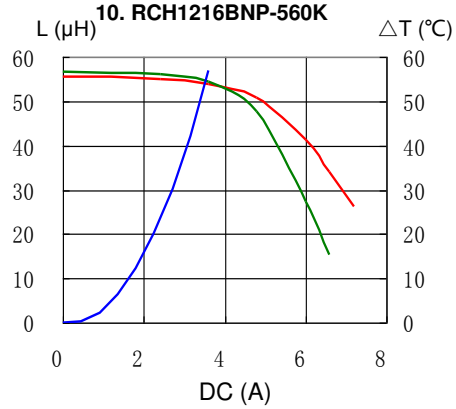
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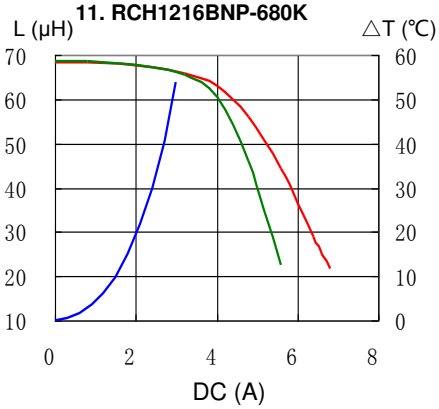
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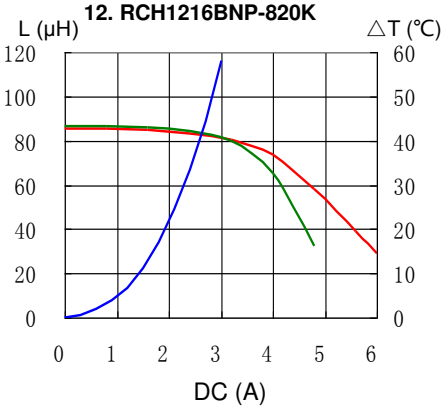
10. RCH1216BNP-560K



11. RCH1216BNP-680K



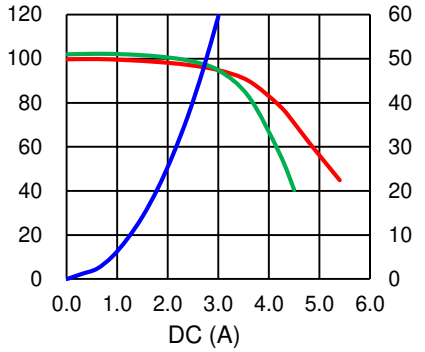
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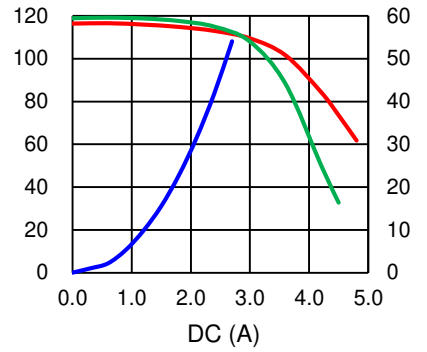
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

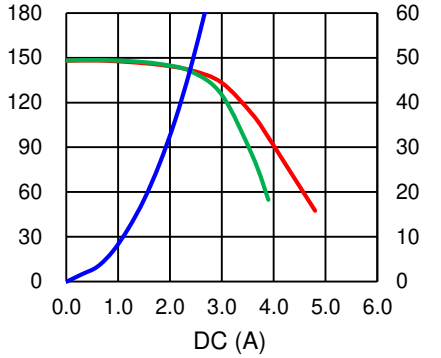
13. RCH1216BNP-101K



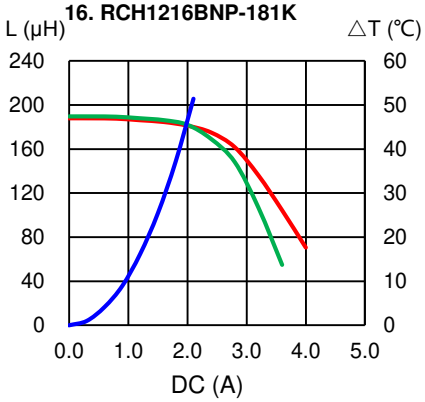
14. RCH1216BNP-121K



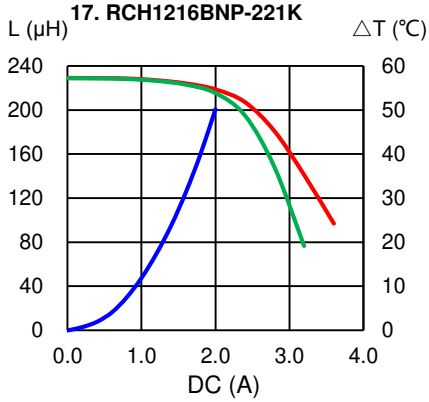
15. RCH1216BNP-151K



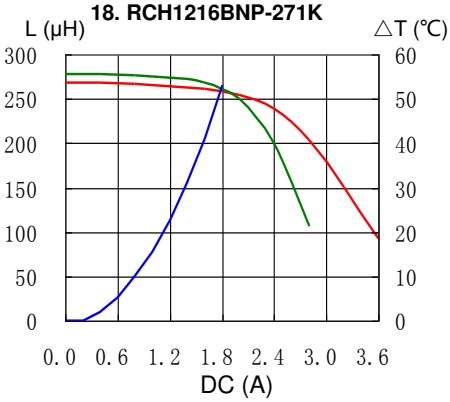
16. RCH1216BNP-181K



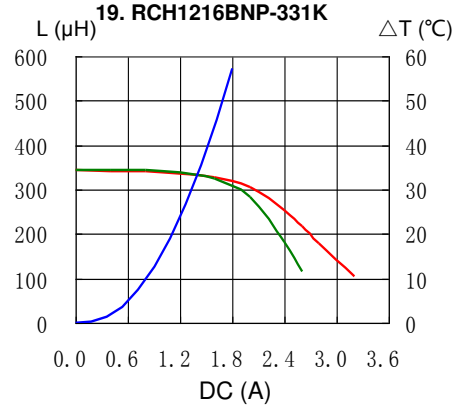
17. RCH1216BNP-221K



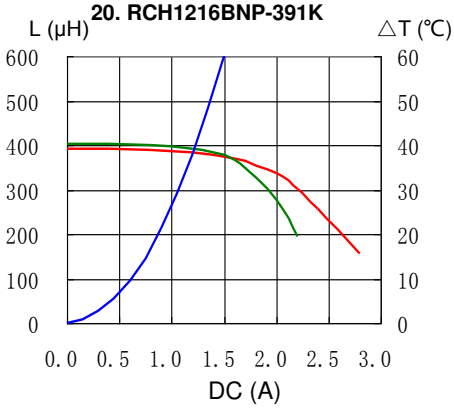
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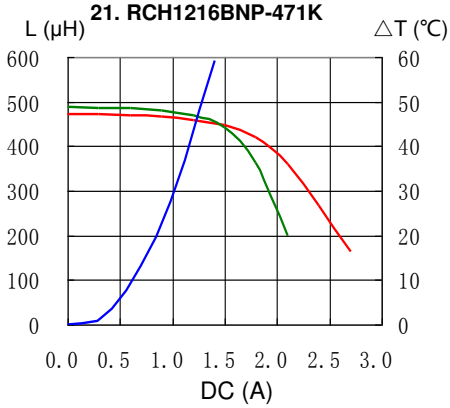
19. RCH1216BNP-331K



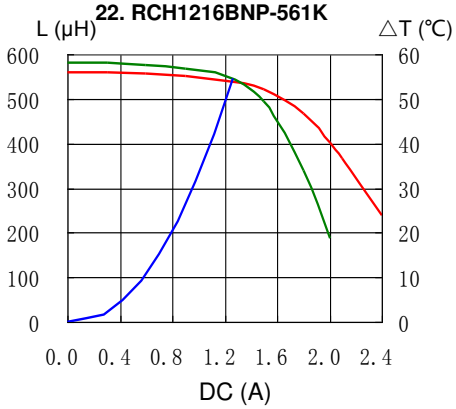
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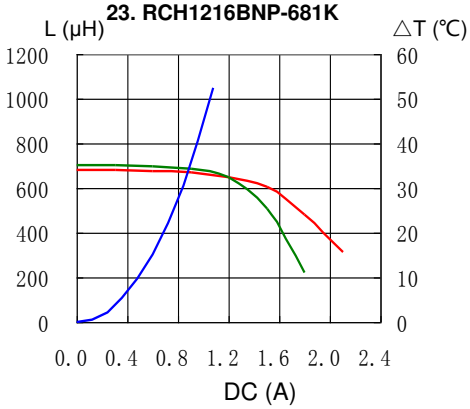
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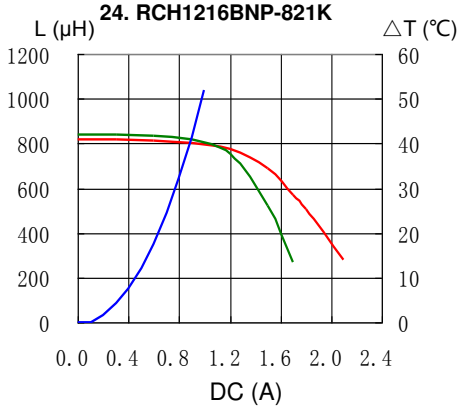
22. RCH1216BNP-561K



23. RCH1216BNP-681K



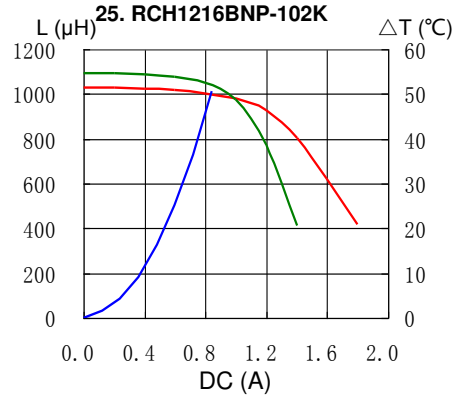
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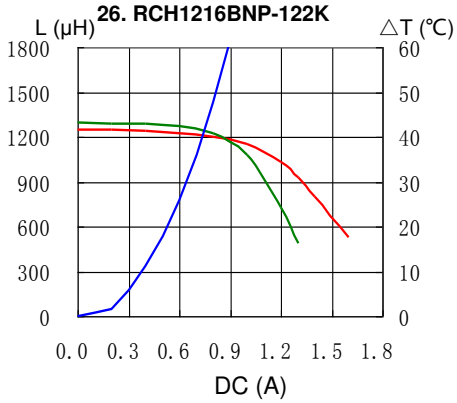
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

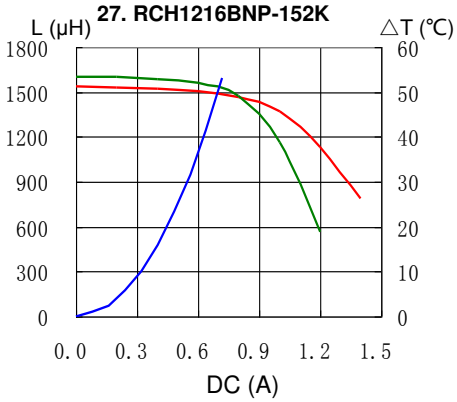
25. RCH1216BNP-102K



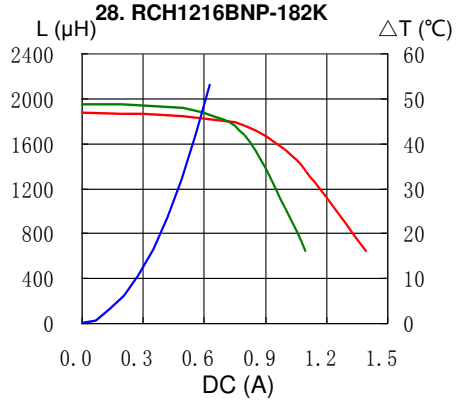
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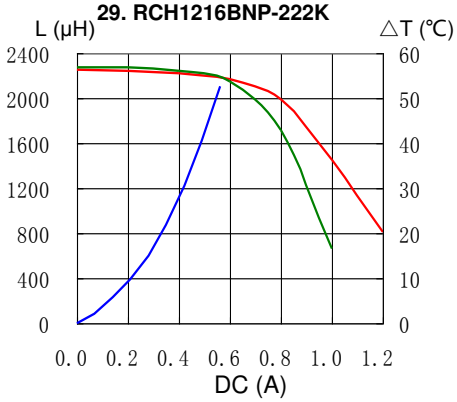
27. RCH1216BNP-152K



28. RCH1216BNP-182K



29. RCH1216BNP-222K



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