

HER1090C

AEC-Q200



■ Features

- Compact and Low profile Power Inductor for Automotive-Equipments
- Upgraded the current characteristics by using different magnetic materials for drum core and ring core separately
- * The current characteristics have been increased by approximately 20% as compared with the same sized existing product
- HER8080C realizes the current characteristic equivalent to our 10mm SQUARE coils
- HER1090C realizes the same current characteristic equivalent to our 12mm SQUARE coils
- AEC-Q200 compliant
- Operating temperature : -40°C~+150°C(The self-heating is included)

Magnetic structure :

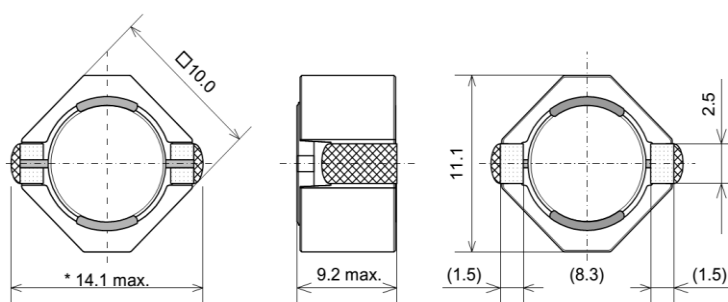


Weight : 3.1 g

■ Applications

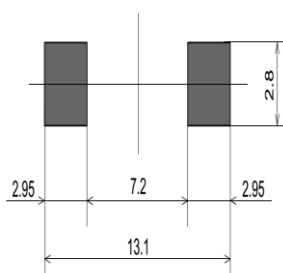
- Automotive/Car Audio,Car Navigation,ECU,LED Headlights
- Others/Power Supply,FA,Medical,Energy

■ Dimensions



(Unit : mm)

■ Recommended Land Pattern



(Unit : mm)



SAGAMI ELEC CO., LTD.
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■ Specifications

SAGAMI Part No.	Inductance (μ H)	DCR (Ω) $\pm 30\%$	DC Saturation Allowable Current (A)		Temperature Rise Allowable Current (A)	
			Typical	Spec	Typical	Spec
HER1090C-1R1N	1.1 $\pm 30\%$	0.00600	25.7	19.0	9.30	7.40
HER1090C-1R8N	1.8 $\pm 30\%$	0.00800	20.5	14.2	8.30	6.50
HER1090C-2R7N	2.7 $\pm 30\%$	0.00900	18.5	13.0	7.60	6.00
HER1090C-3R3N	3.3 $\pm 30\%$	0.0110	15.3	11.5	7.00	5.60
HER1090C-4R7N	4.7 $\pm 30\%$	0.0130	14.4	9.90	6.40	5.00
HER1090C-5R6N	5.6 $\pm 30\%$	0.0140	12.5	9.00	6.20	4.85
HER1090C-6R8N	6.8 $\pm 30\%$	0.0160	10.9	8.20	5.80	4.60
HER1090C-8R2N	8.2 $\pm 30\%$	0.0180	10.6	7.00	5.40	4.30
HER1090C-100M	10 $\pm 20\%$	0.0190	8.90	6.40	5.30	4.20
HER1090C-150M	15 $\pm 20\%$	0.0230	7.65	5.20	4.80	3.80
HER1090C-220M	22 $\pm 20\%$	0.0330	6.65	4.40	4.00	3.40
HER1090C-330M	33 $\pm 20\%$	0.0590	5.20	3.50	3.00	2.60
HER1090C-470M	47 $\pm 20\%$	0.0960	4.30	3.00	2.40	1.85
HER1090C-680M	68 $\pm 20\%$	0.130	3.50	2.45	2.10	1.62
HER1090C-820M	82 $\pm 20\%$	0.160	3.20	2.25	1.80	1.42
HER1090C-101M	100 $\pm 20\%$	0.210	3.00	1.95	1.60	1.24
HER1090C-151M	150 $\pm 20\%$	0.230	2.50	1.70	1.50	1.20
HER1090C-221M	220 $\pm 20\%$	0.290	2.05	1.35	1.40	1.08
HER1090C-331M	330 $\pm 20\%$	0.430	1.65	1.15	1.10	0.880
HER1090C-471M	470 $\pm 20\%$	0.690	1.30	0.950	0.870	0.690
HER1090C-681M	680 $\pm 20\%$	1.08	1.10	0.780	0.700	0.550
HER1090C-102M	1000 $\pm 20\%$	1.36	0.950	0.650	0.620	0.490

Inductance Measuring Condition:100kHz,1V

DC saturation allowable current:The current value which inductance decrease within 30% from the initial value

Temperature rise allowable current:The rise in temperature of core surface is within 40℃



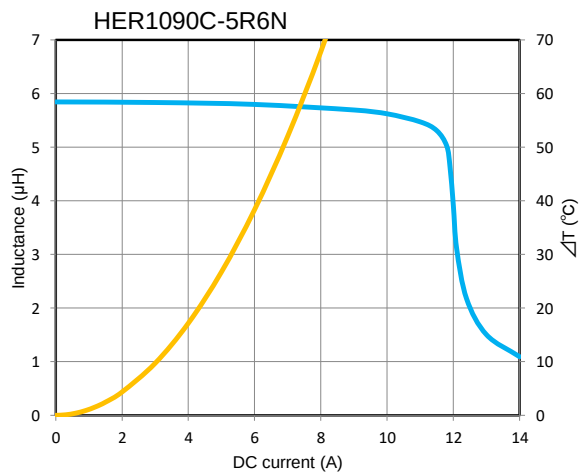
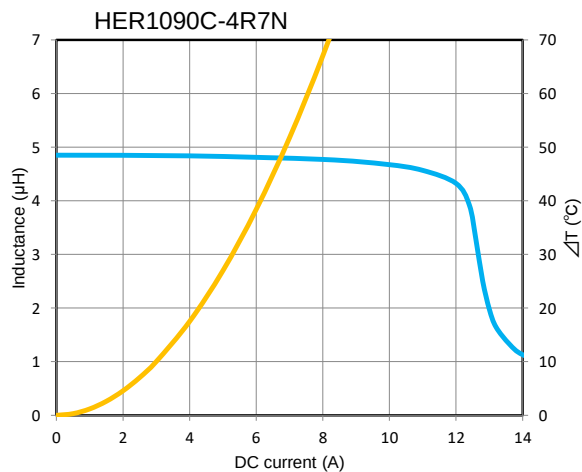
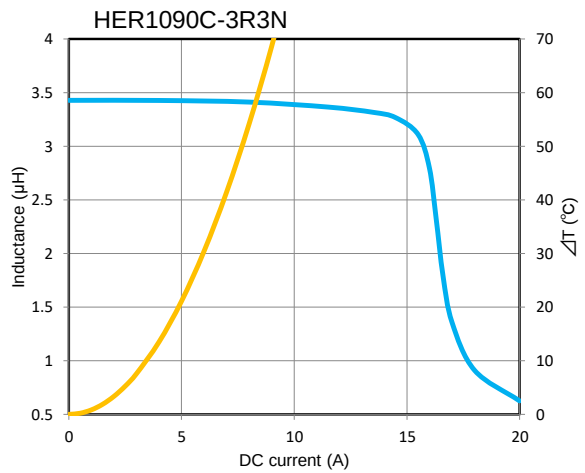
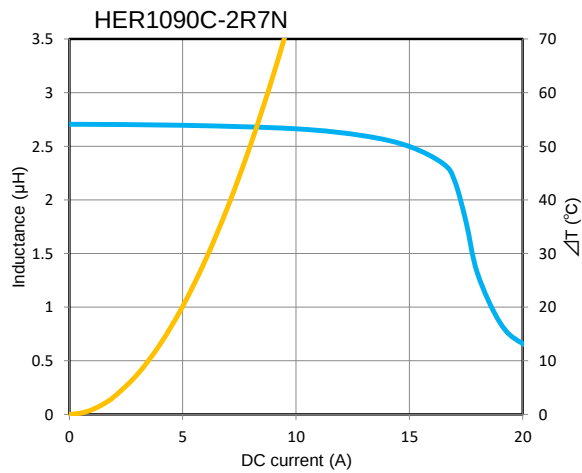
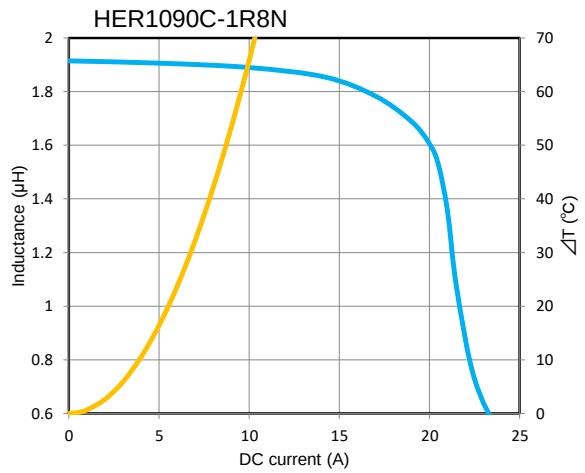
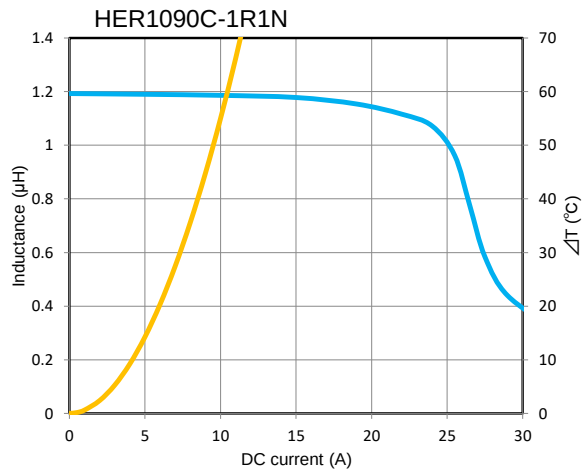
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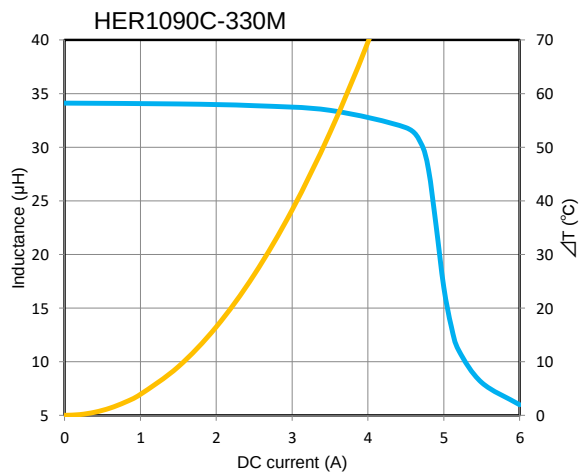
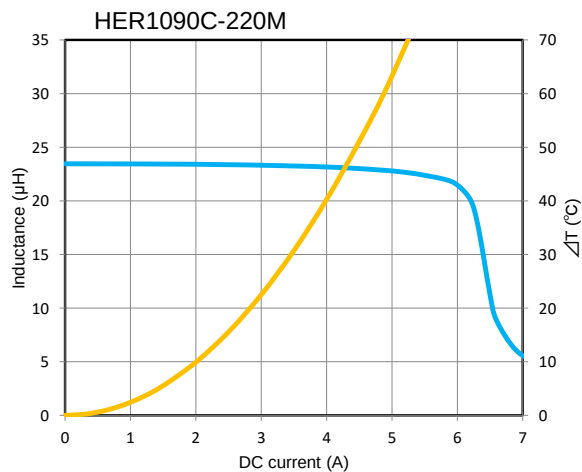
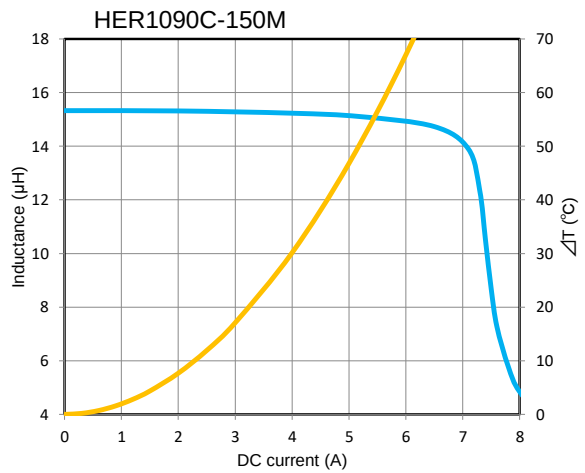
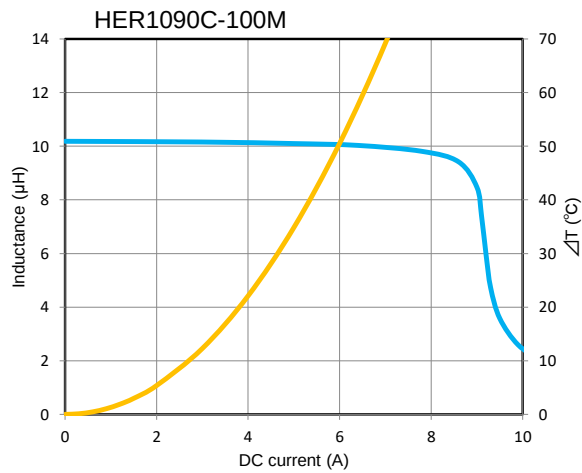
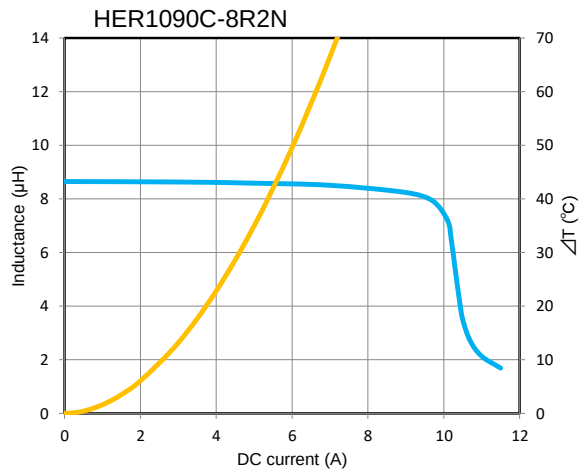
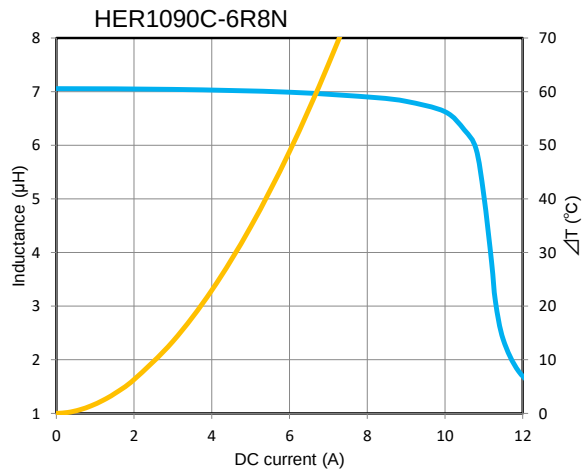
DC bias characteristics vs Temperature Rise Graph

— $L(25^{\circ}\text{C})$
— ΔT



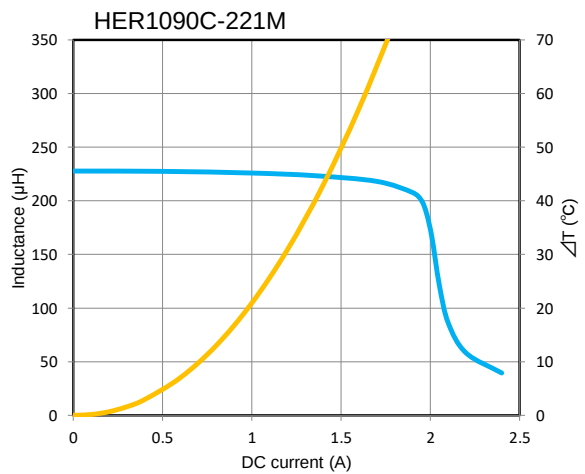
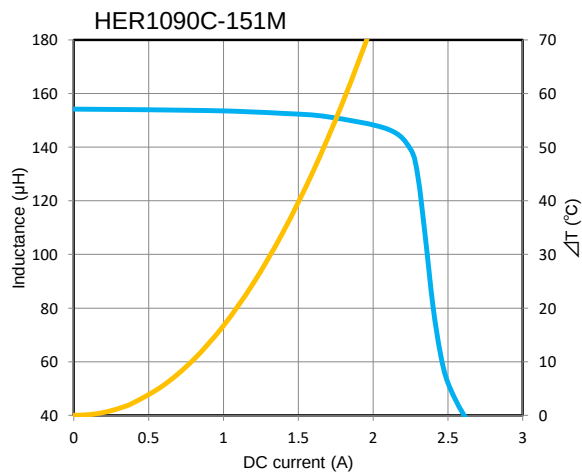
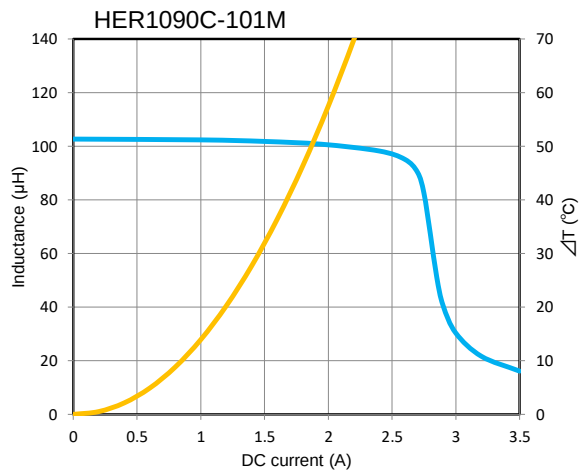
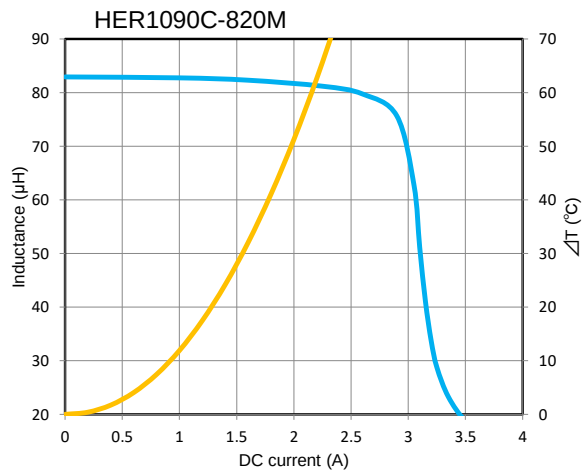
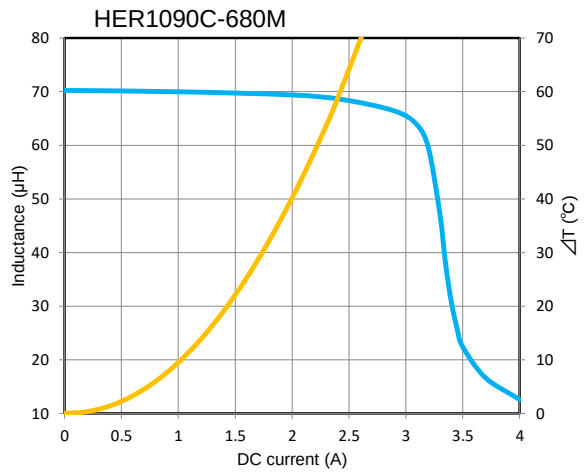
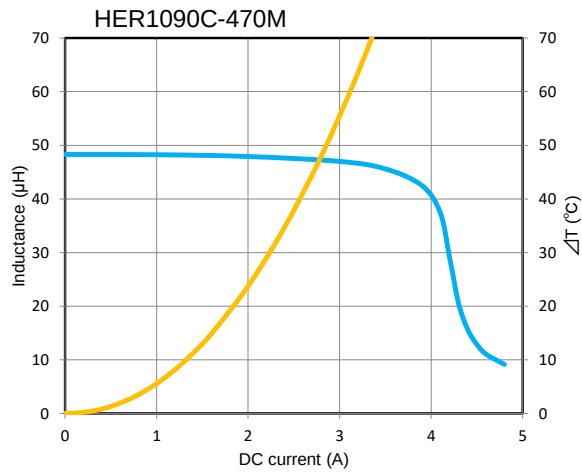
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■ $L(25^{\circ}\text{C})$
■ ΔT



DC bias characteristics vs Temperature Rise Graph

— $L(25^{\circ}\text{C})$ — ΔT

