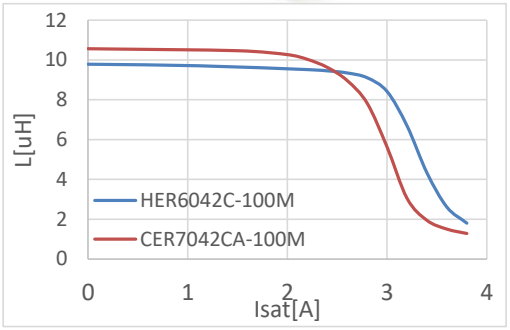
HER6042C

New Products

RoHS

AEC-Q200



■ Features

- Compact Power Inductor for Automotive-Equipment
- Upgrade the current characteristics by using different magnetic materials separately for drum core and ring core
- Current characteristic equivalent to our 7mm SQUARE coils
- AEC-Q200 plan to be qualified

Operating Temperature Range : -40 ℃～ +150 ℃(include self-heating)

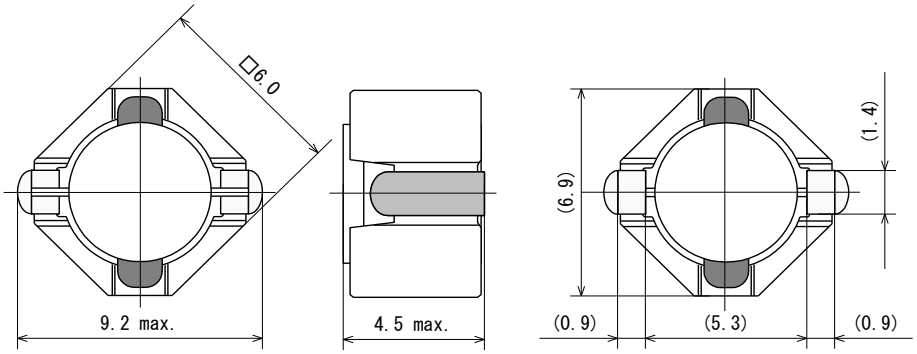
■ Application

- AudioVisual
- TV and Monitor, Mini component, AV amplifier, Amplifier for profes, Camera, Recorder
- Computer & Peripheral Device
- Computer, Printer(MFP), Industorial machines
- Home Electronics
- LED Lights
- Others
- Power Supply, FA, Medical, Energy, Transceivers

■ Magnetic structure

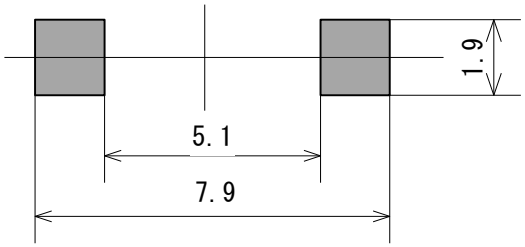
Weight : 0.5 g

■ Dimensions



(Unit : mm)

■ Recommended Land Pattern



SAGAMI ELEC CO., LTD.
https://www.sagami-elec.co.jp
10-30, Ichibashimo-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0024, Japan
Over Seas Sales Dept. TEL : +81 45 511 3141, E-mail : ossg@sagami-elec.co.jp
Engineering Dept. TEL : +81 45 521 4543

(2021.08)

■ Specifications

SAGAMI Part No.	Inductance (μH)	DCR Resistance (Ω) ±30%	Rated current			
			DC saturation allowable current (A)		Teperature rise allowable current (A)	
			Spec.	Typical	Spec.	Typical
HER6042C-R82N	0.82 ±30%	0.00800	9.60	11.2	5.10	7.00
HER6042C-1R2N	1.2 ±30%	0.0100	8.10	9.40	4.60	6.30
HER6042C-1R6N	1.6 ±30%	0.0120	6.80	8.20	4.30	5.80
HER6042C-2R2N	2.2 ±30%	0.0130	5.90	7.20	4.00	5.40
HER6042C-3R0N	3.0 ±30%	0.0160	5.00	6.30	3.70	5.10
HER6042C-3R6N	3.6 ±30%	0.0180	4.60	5.70	3.60	4.90
HER6042C-4R3N	4.3 ±30%	0.0200	4.10	5.10	3.30	4.40
HER6042C-5R1N	5.1 ±30%	0.0250	3.80	4.70	2.90	4.00
HER6042C-6R2N	6.2 ±30%	0.0310	3.40	4.20	2.70	3.60
HER6042C-8R2N	8.2 ±30%	0.0420	3.00	3.60	2.20	3.00
HER6042C-100M	10 ±20%	0.0560	2.80	3.30	1.90	2.60
HER6042C-120M	12 ±20%	0.0630	2.40	3.00	1.80	2.45
HER6042C-150M	15 ±20%	0.0710	2.25	2.70	1.65	2.25
HER6042C-180M	18 ±20%	0.0820	2.05	2.45	1.55	2.10
HER6042C-220M	22 ±20%	0.0900	1.80	2.25	1.50	2.00
HER6042C-270M	27 ±20%	0.100	1.65	2.05	1.35	1.90
HER6042C-330M	33 ±20%	0.110	1.50	1.85	1.30	1.80
HER6042C-390M	39 ±20%	0.130	1.40	1.70	1.25	1.70
HER6042C-470M	47 ±20%	0.150	1.30	1.60	1.15	1.55
HER6042C-560M	56 ±20%	0.220	1.15	1.40	0.950	1.30
HER6042C-680M	68 ±20%	0.260	1.05	1.25	0.870	1.15
HER6042C-820M	82 ±20%	0.320	1.00	1.20	0.780	1.05
HER6042C-101M	100 ±20%	0.420	0.910	1.05	0.660	0.880
HER6042C-121M	120 ±20%	0.530	0.810	0.970	0.600	0.820
HER6042C-151M	150 ±20%	0.590	0.740	0.890	0.570	0.780
HER6042C-181M	180 ±20%	0.670	0.680	0.810	0.540	0.730
HER6042C-221M	220 ±20%	0.750	0.620	0.750	0.510	0.690
HER6042C-271M	270 ±20%	0.950	0.550	0.670	0.440	0.600
HER6042C-331M	330 ±20%	1.20	0.480	0.590	0.400	0.540
HER6042C-391M	390 ±20%	1.54	0.420	0.510	0.350	0.480
HER6042C-471M	470 ±20%	1.96	0.400	0.480	0.300	0.410
HER6042C-561M	560 ±20%	2.18	0.350	0.440	0.280	0.380

・Inductance Measuring Condition : 100kHz,1V
・Rated current : DC saturation allowable current or Temperature rise allowable current,whichever is smaller.
1.DC saturation allowable current(Spec.) : value of inductance decrease within 30%.
DC saturation allowable current(Typical) : value of inductance decrease 30%.
2.Temperature rise allowable current(Spec.) : A rise in temperature of core surface is within 40℃.
Temperature rise allowable current(Typical) : A rise in temperature of core surface is 40℃.

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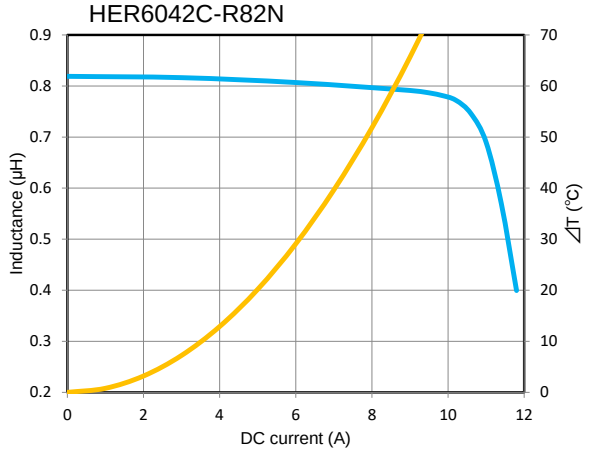
Engineering Dept. TEL : +81 45 521 4543

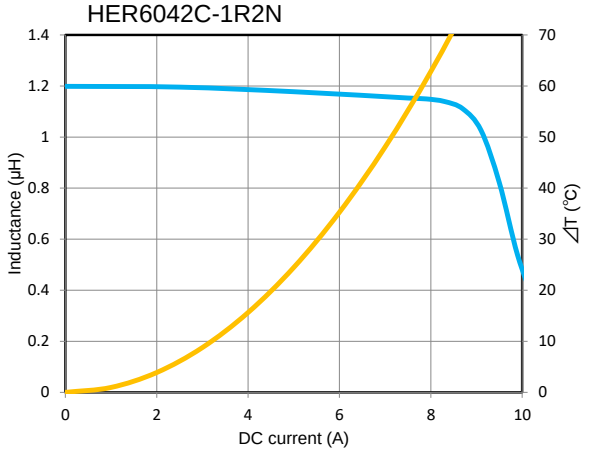
DC bias characteristics vs Temperature Rise Graph

L(25℃) ⊿T

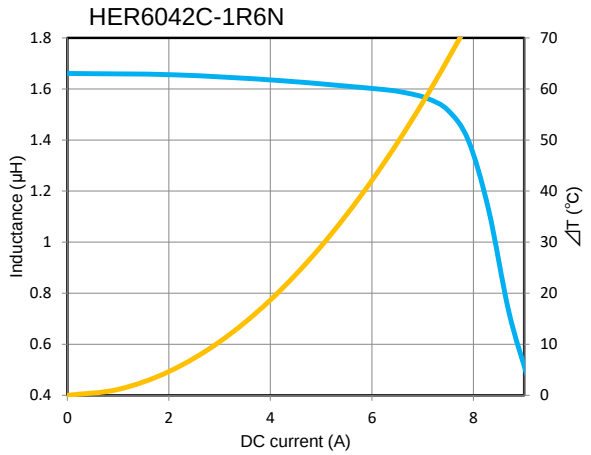
HER6042C-R82N



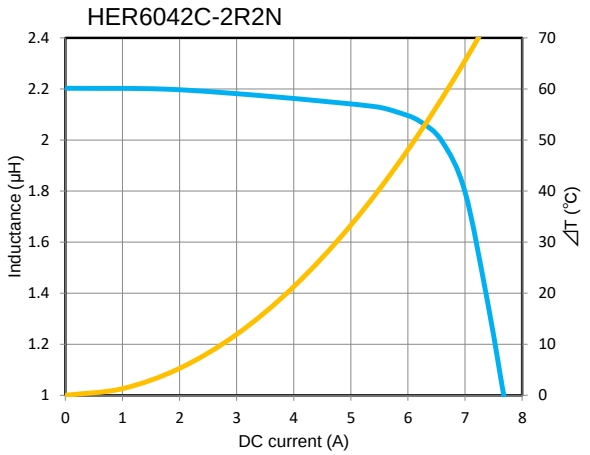
HER6042C-1R2N



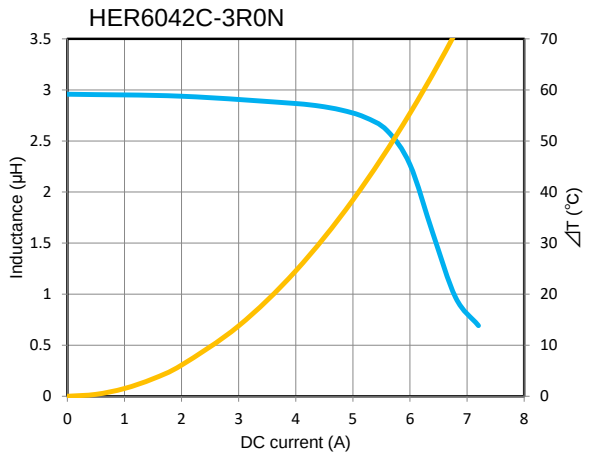
HER6042C-1R6N



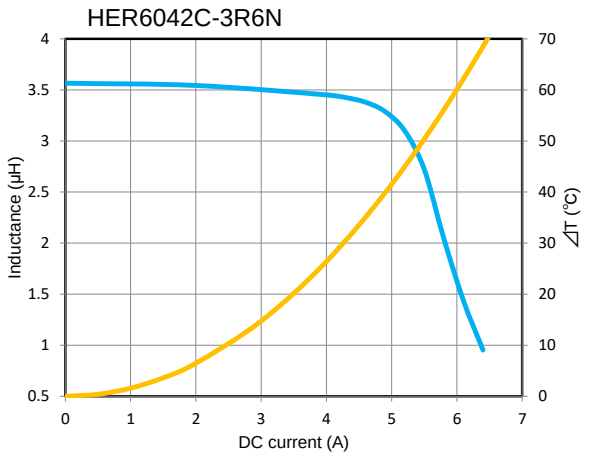
HER6042C-2R2N



HER6042C-3R0N



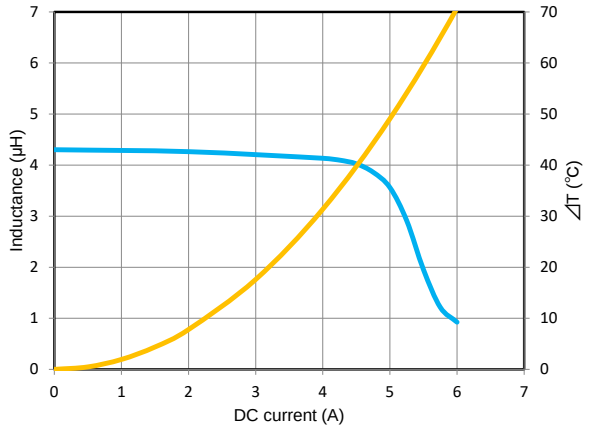
HER6042C-3R6N



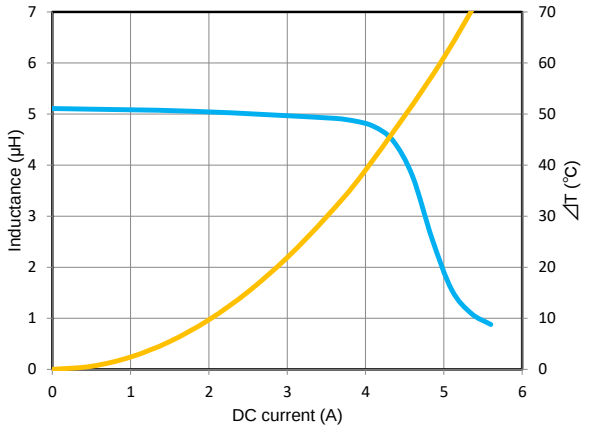
DC bias characteristics vs Temperature Rise Graph

L(25℃) ⊿T

HER6042C-4R3N



HER6042C-5R1N



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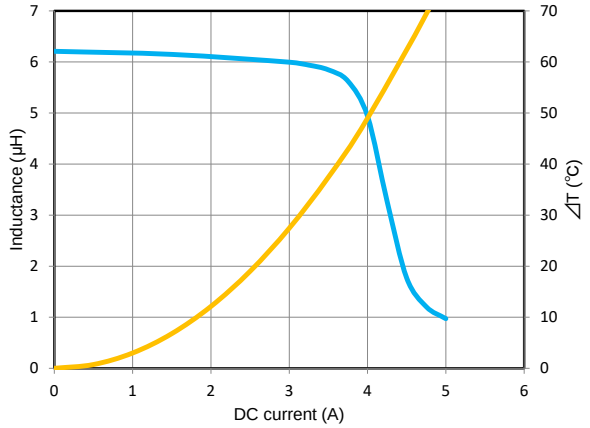
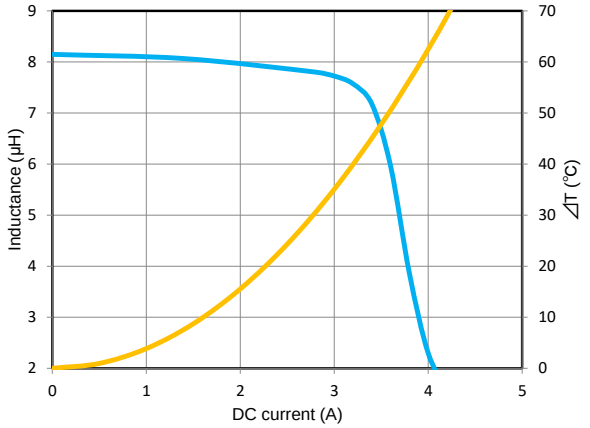
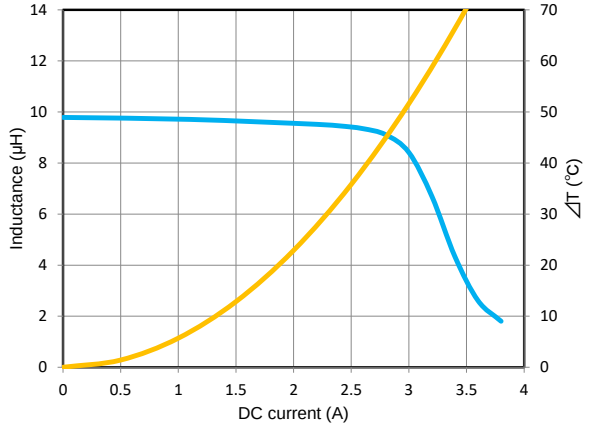


HER6042C-8R2N



HER6042C-100M



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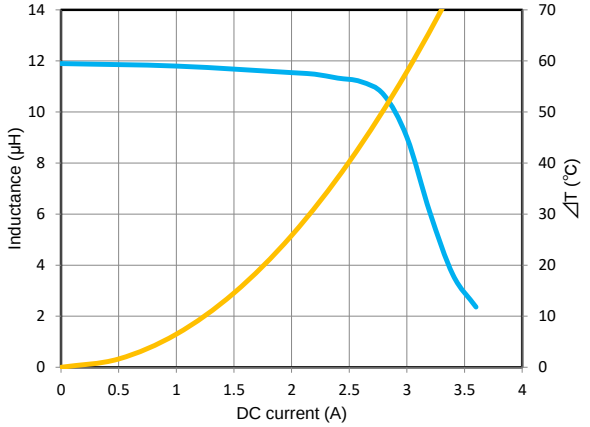
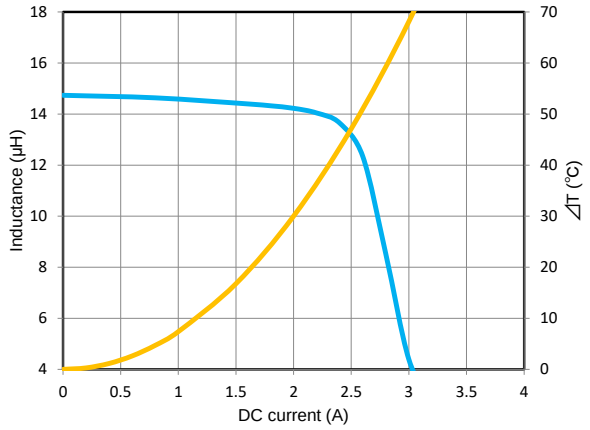


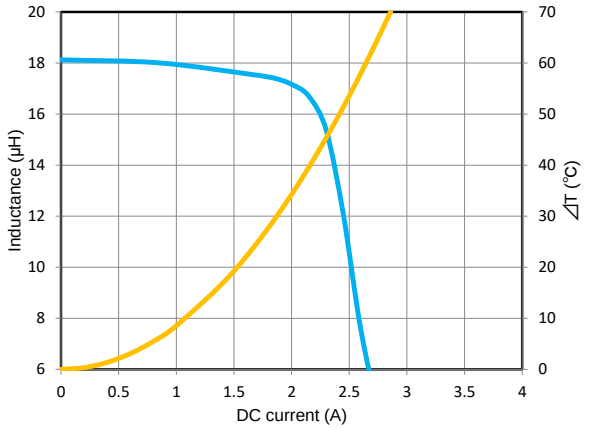
DC bias characteristics vs Temperature Rise Graph

L(25℃) ⊿T

HER6042C-150M



HER6042C-180M



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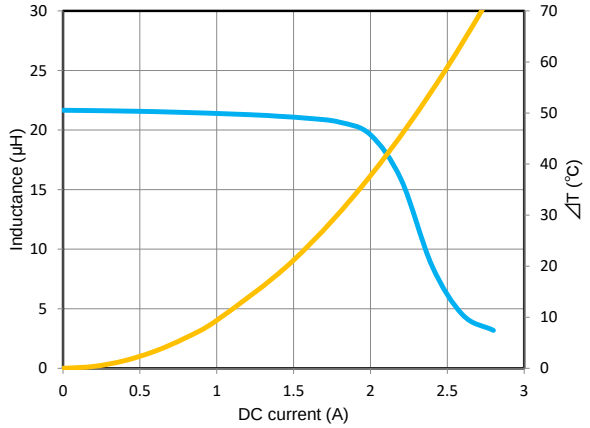

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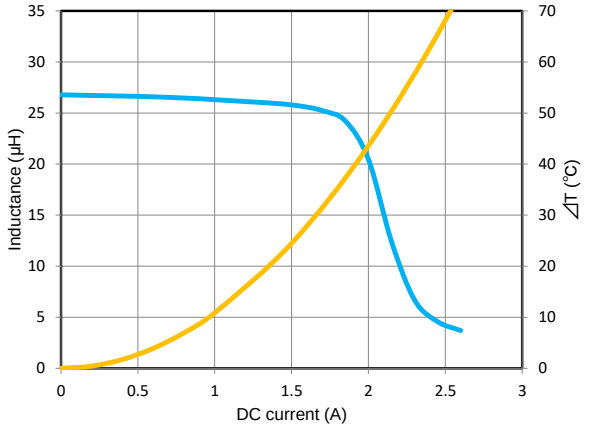

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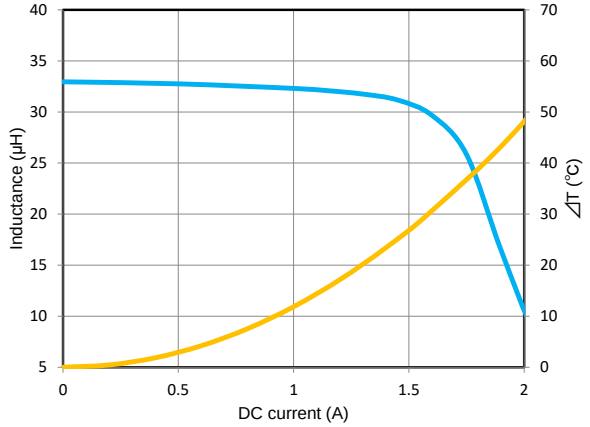
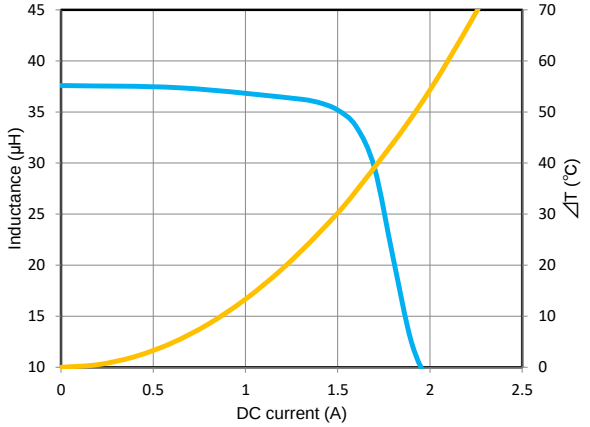


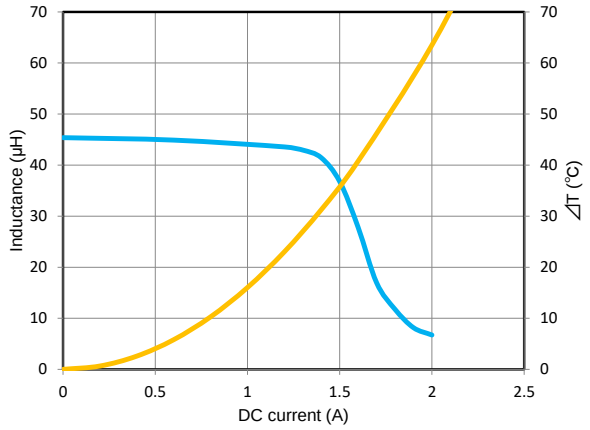
HER6042C-390M



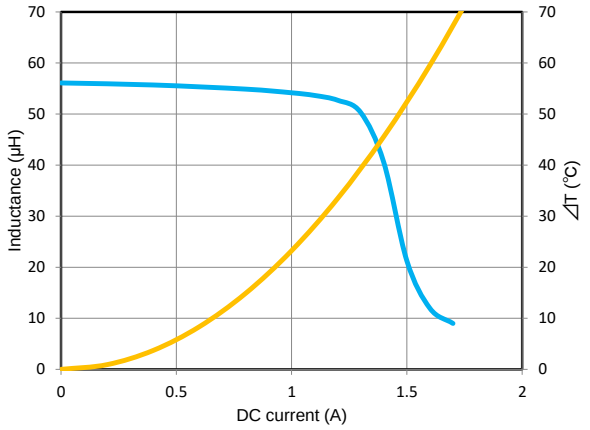
DC bias characteristics vs Temperature Rise Graph

L(25℃) ⊿T

HER6042C-470M



HER6042C-560M



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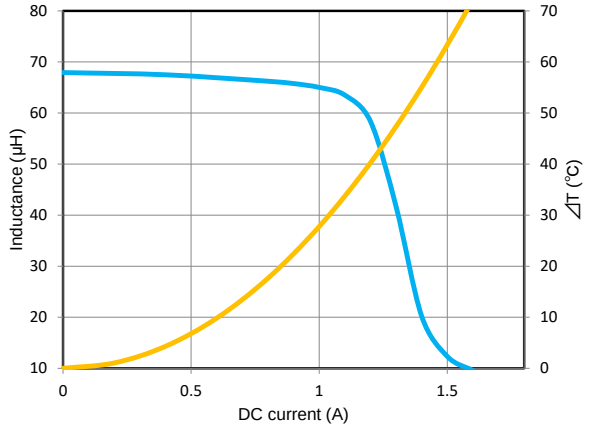

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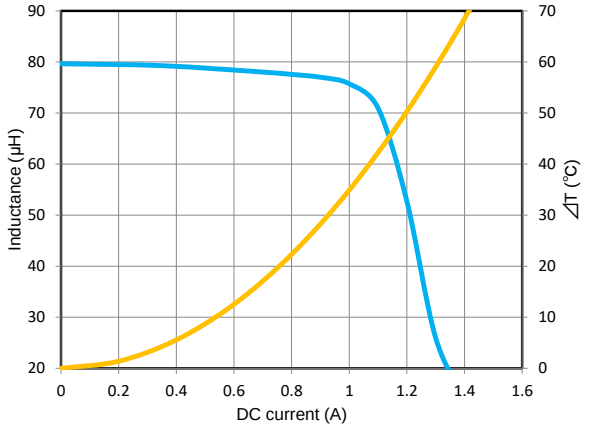

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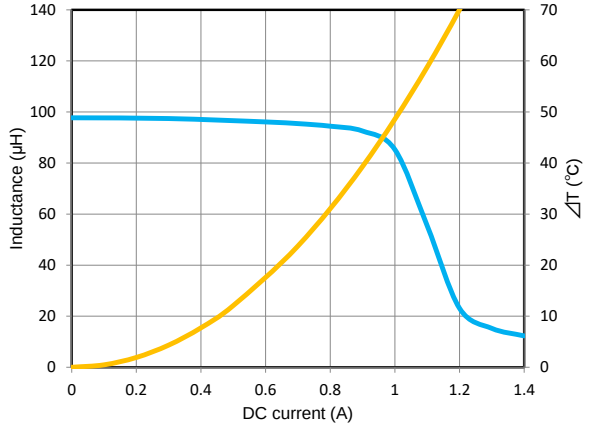

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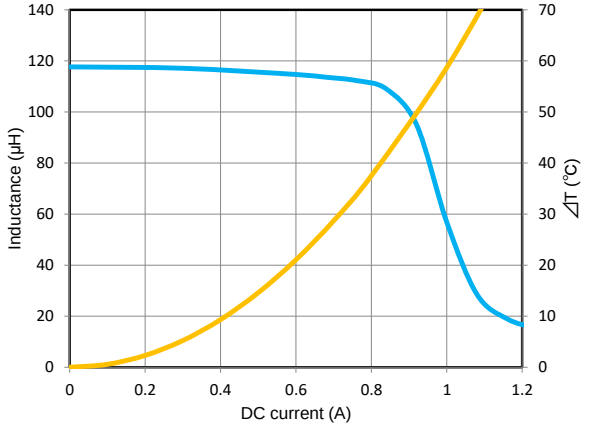
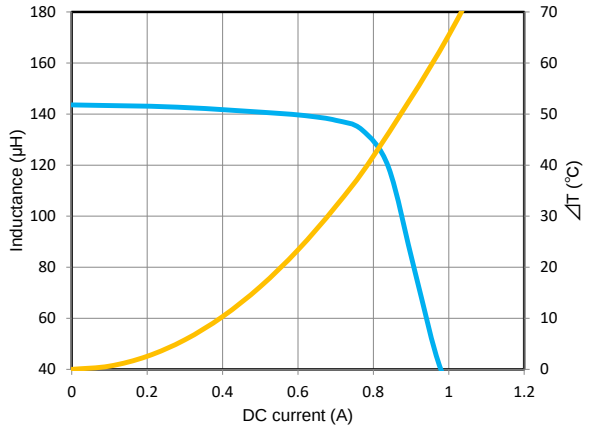


DC bias characteristics vs Temperature Rise Graph

L(25℃) ⊿T

HER6042C-151M



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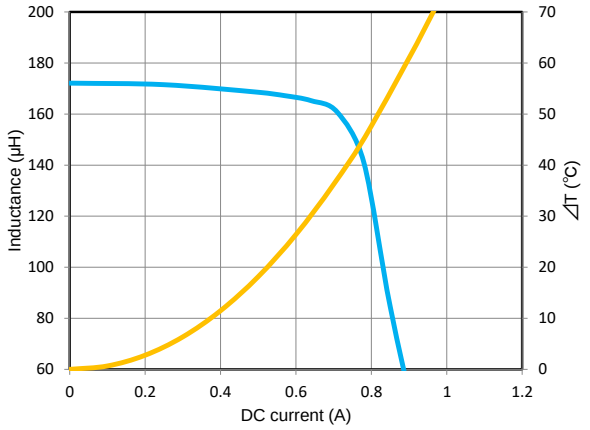

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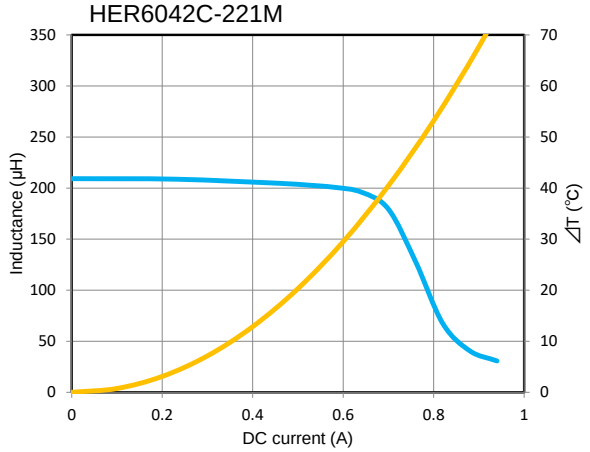

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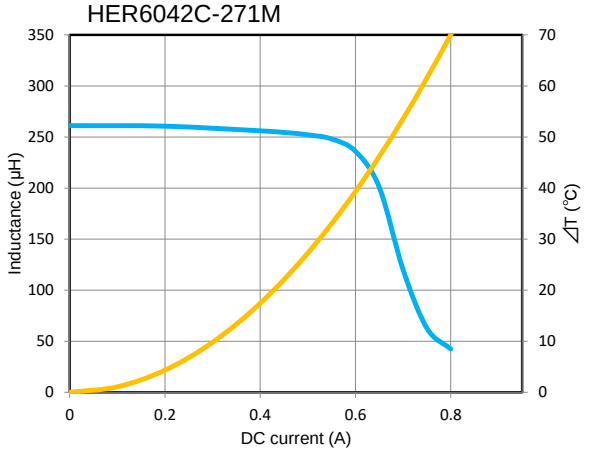

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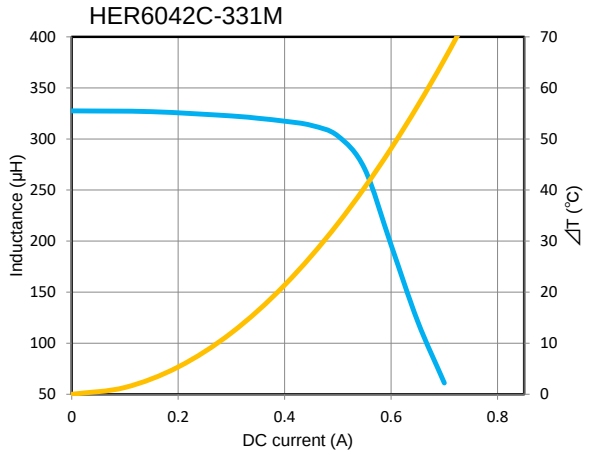

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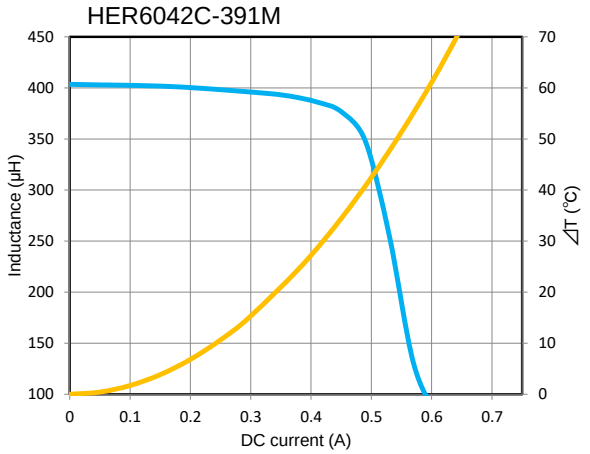

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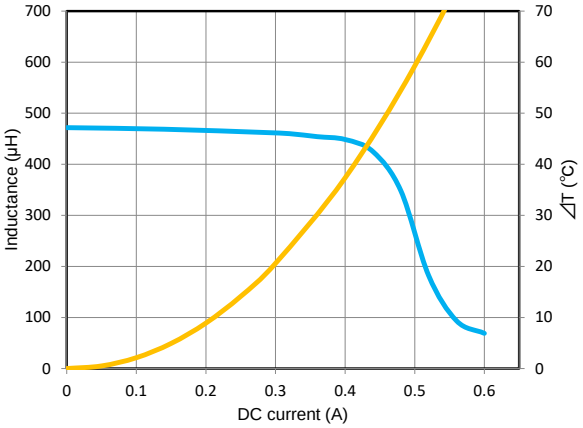

HER6042C-561M