CER7042C

AEC-Q200

■ Features

- High reliability available for automotive application.
- SMD magnetic shielded type of power inductor.
- Suitable for power supply choke coil.
- AEC-Q200 compliant
- Operating temperature：-40℃～+150℃(The self-heating is included)

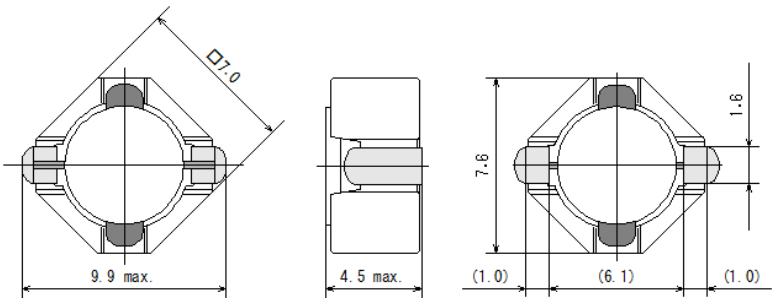
Magnetic structure：

Weight： 0.658 g

■ Applications

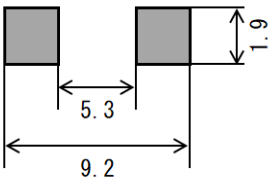
- Automotive/ECU,LED Headlights,Car Audio,Car Navigation
- Others/Medical,Energy,Power Supply,FA

■ Dimensions



(Unit：mm)

■ Recommended Land Pattern



(Unit：mm)

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

■ Specifications

SAGAMI Part No.	Inductance (μH)	DCR (Ω) ±30%	DC Saturation Allowable Current (A)		Temperature Rise Allowable Current (A)	
			Typical	Spec	Typical	Spec
CER7042C-1R2N	1.2±30%	0.0080	6.65	5.25	7.00	4.70
CER7042C-1R8N	1.8±30%	0.0090	5.70	4.30	6.20	4.30
CER7042C-2R2N	2.2±30%	0.0110	5.10	3.90	5.75	4.10
CER7042C-3R0N	3±30%	0.0120	4.40	3.40	5.60	3.90
CER7042C-3R6N	3.6±30%	0.0140	3.90	3.05	5.20	3.70
CER7042C-4R3N	4.3±30%	0.0150	3.55	2.70	4.70	3.40
CER7042C-5R1N	5.1±30%	0.0190	3.25	2.50	4.25	3.05
CER7042C-6R2N	6.2±30%	0.0220	3.00	2.35	4.10	2.95
CER7042C-7R5N	7.5±30%	0.0250	2.70	2.10	3.80	2.60
CER7042C-8R2N	8.2±30%	0.0320	2.55	1.95	3.30	2.40
CER7042C-100M	10±20%	0.0360	2.35	1.80	3.20	2.30
CER7042C-120M	12±20%	0.0450	2.15	1.65	2.75	2.00
CER7042C-150M	15±20%	0.0510	1.95	1.50	2.55	1.90
CER7042C-180M	18±20%	0.0640	1.75	1.40	2.25	1.60
CER7042C-220M	22±20%	0.0790	1.60	1.20	2.05	1.50
CER7042C-270M	27±20%	0.0840	1.40	1.05	1.90	1.40
CER7042C-330M	33±20%	0.110	1.30	1.00	1.70	1.20
CER7042C-390M	39±20%	0.130	1.20	0.900	1.55	1.10
CER7042C-470M	47±20%	0.150	1.10	0.850	1.40	1.05
CER7042C-560M	56±20%	0.180	1.00	0.750	1.30	0.900
CER7042C-680M	68±20%	0.220	0.900	0.700	1.15	0.850
CER7042C-820M	82±20%	0.270	0.840	0.650	1.05	0.750
CER7042C-101M	100±20%	0.330	0.760	0.600	0.920	0.700
CER7042C-121M	120±20%	0.400	0.660	0.520	0.850	0.650
CER7042C-151M	150±20%	0.490	0.620	0.460	0.760	0.550
CER7042C-181M	180±20%	0.600	0.560	0.430	0.700	0.500
CER7042C-221M	220±20%	0.670	0.520	0.410	0.640	0.470
CER7042C-271M	270±20%	0.830	0.450	0.360	0.570	0.420
CER7042C-331M	330±20%	1.05	0.410	0.320	0.500	0.360
CER7042C-391M	390±20%	1.35	0.380	0.290	0.440	0.330
CER7042C-471M	470±20%	1.49	0.350	0.260	0.420	0.310
CER7042C-561M	560±20%	1.86	0.310	0.240	0.380	0.270
CER7042C-681M	680±20%	2.12	0.290	0.210	0.340	0.260
CER7042C-821M	820±20%	2.67	0.260	0.190	0.300	0.220
CER7042C-102M	1000±20%	2.98	0.240	0.180	0.280	0.210

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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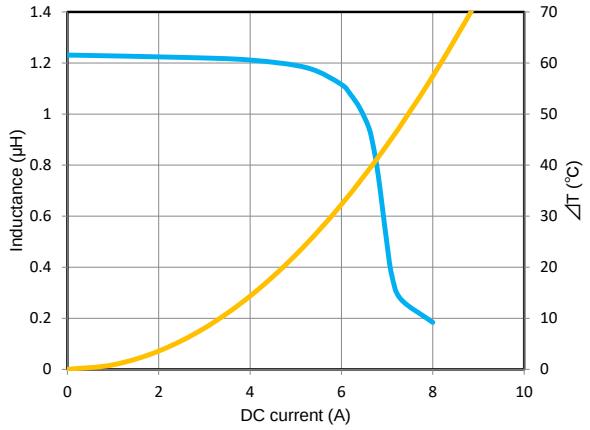
Engineering Dept. TEL : +81 45 521 4543

DC bias characteristics vs Temperature Rise Graph

L(25℃) ⊿T

CER7042C-1R2N



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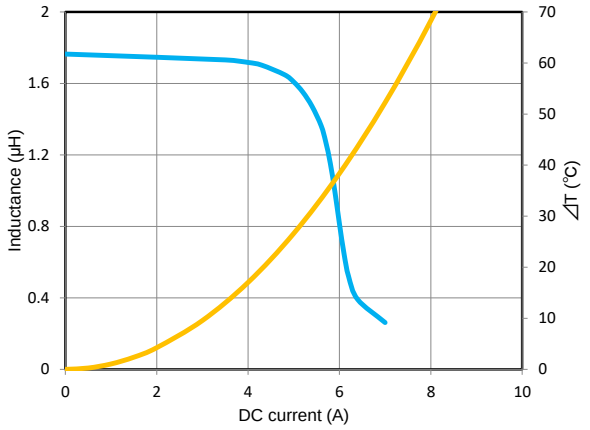

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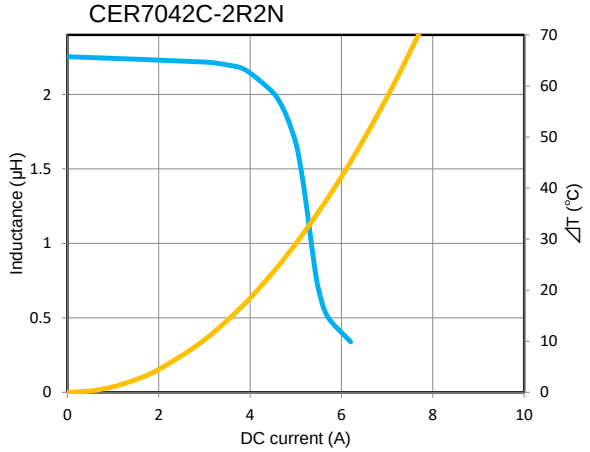

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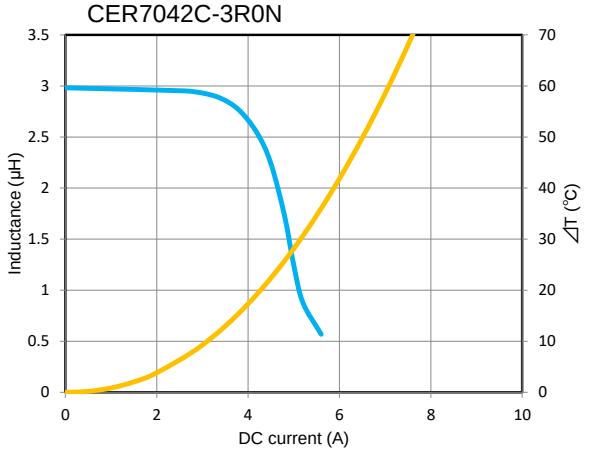

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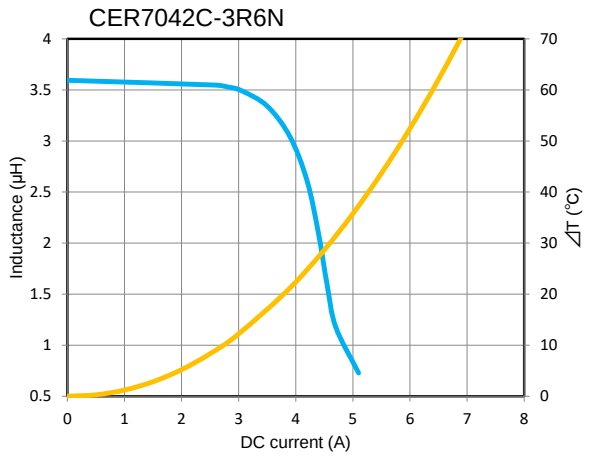

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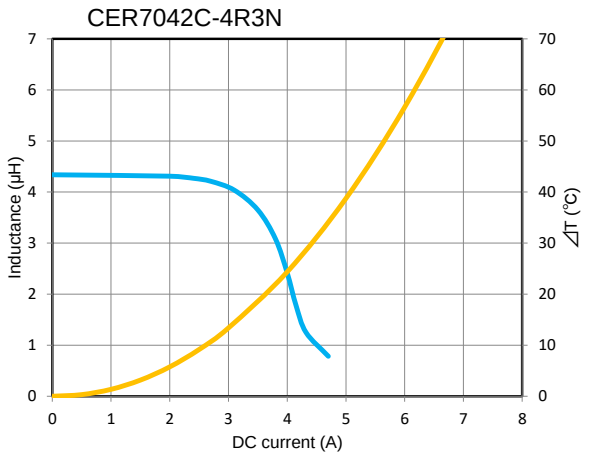

DC bias characteristics vs Temperature Rise Graph

L(25℃) ⊿T

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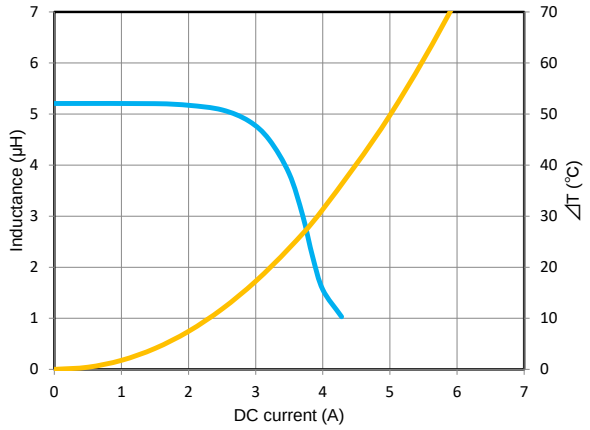

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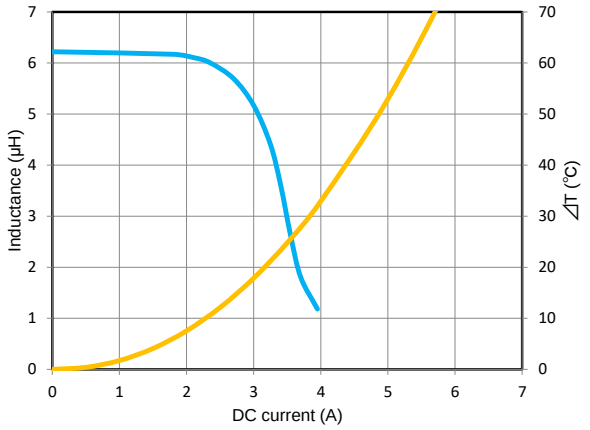

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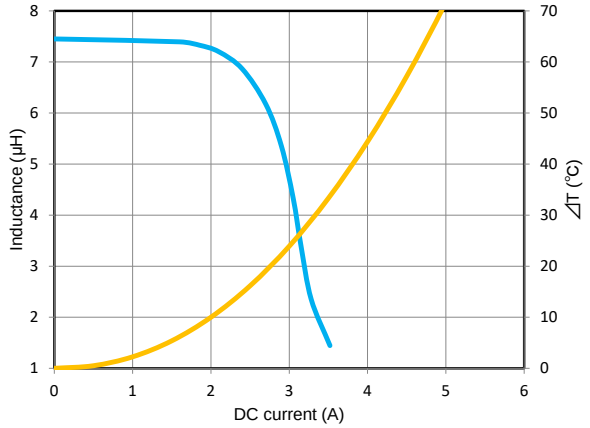

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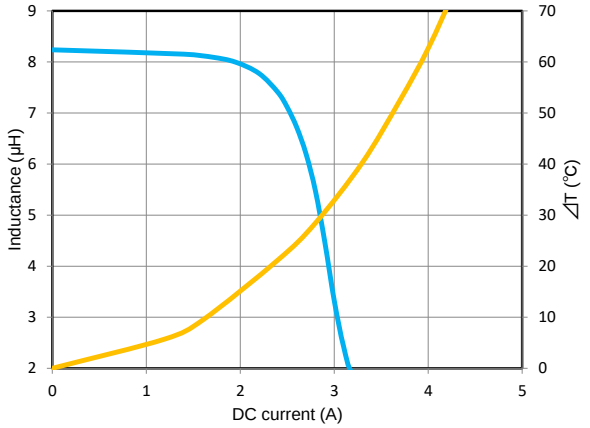

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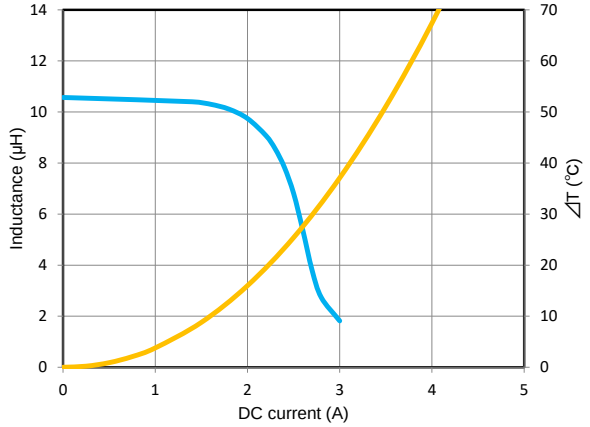

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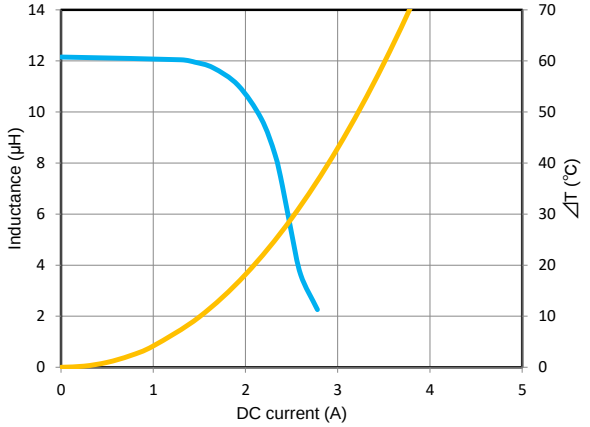

DC bias characteristics vs Temperature Rise Graph

L(25℃) ⊿T

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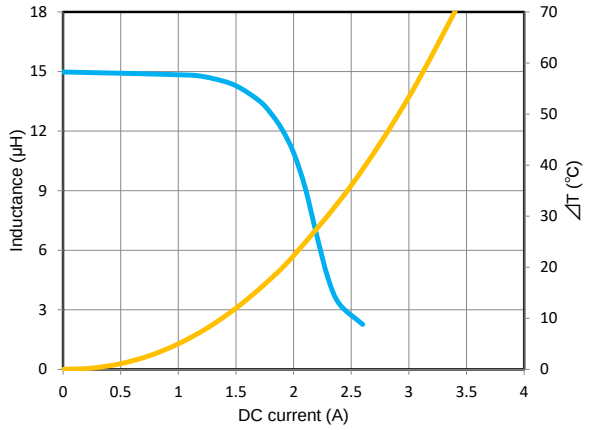

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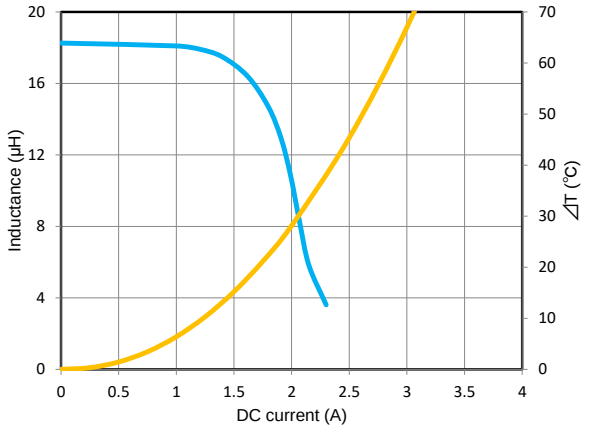

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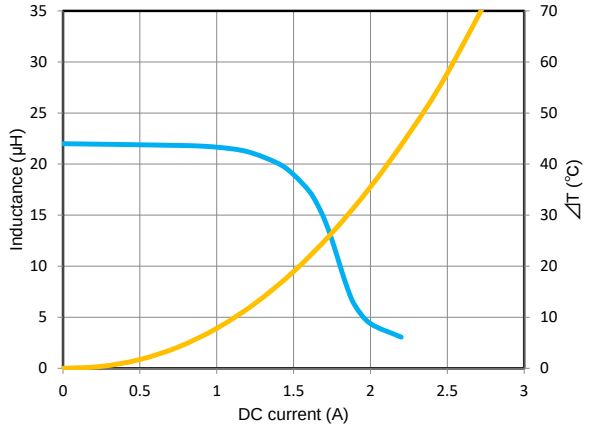

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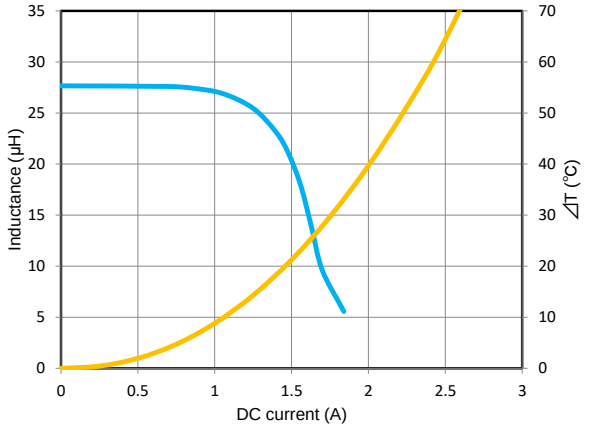

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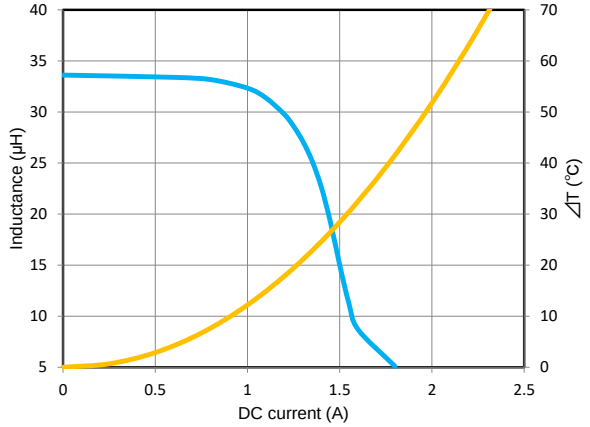

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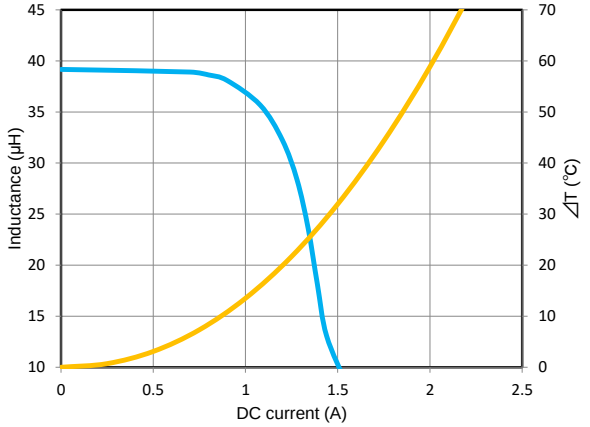
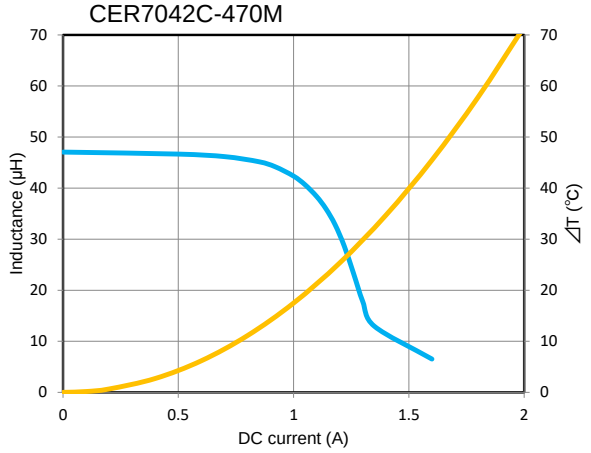


DC bias characteristics vs Temperature Rise Graph

L(25℃) ⊿T

CER7042C-470M



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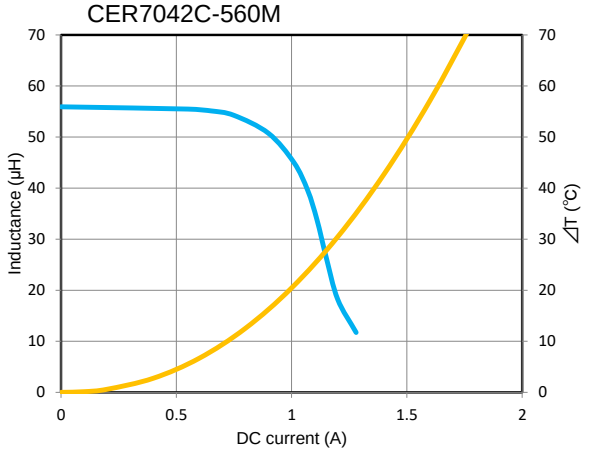

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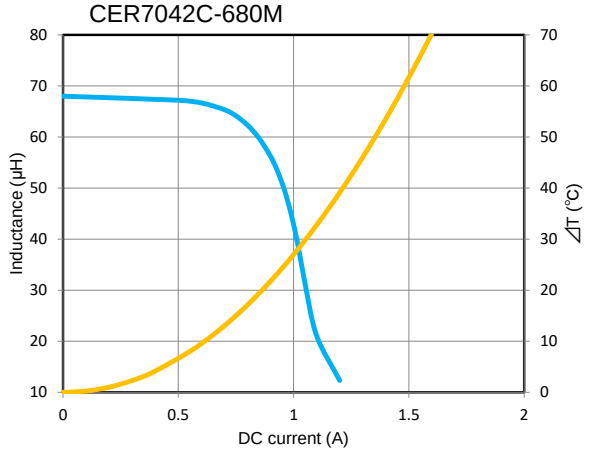

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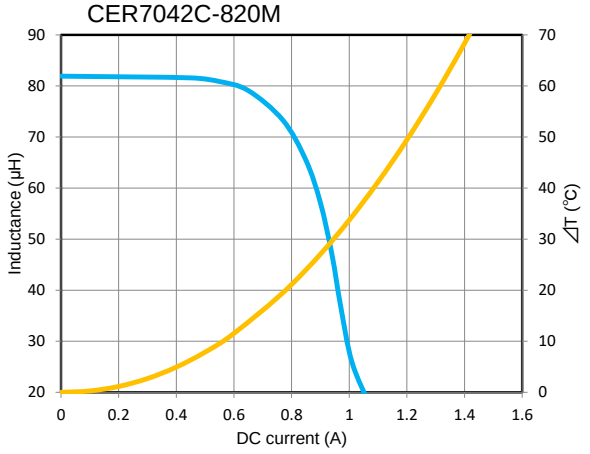

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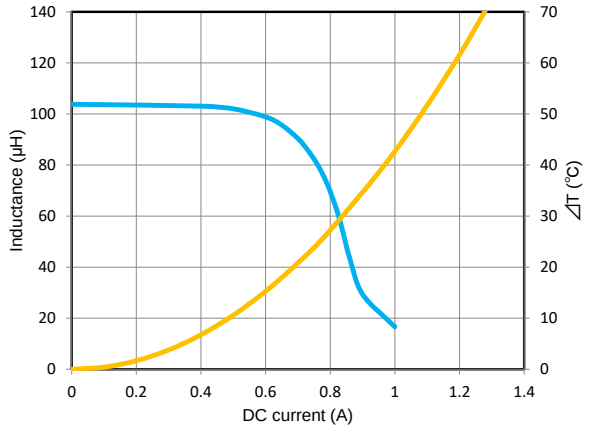

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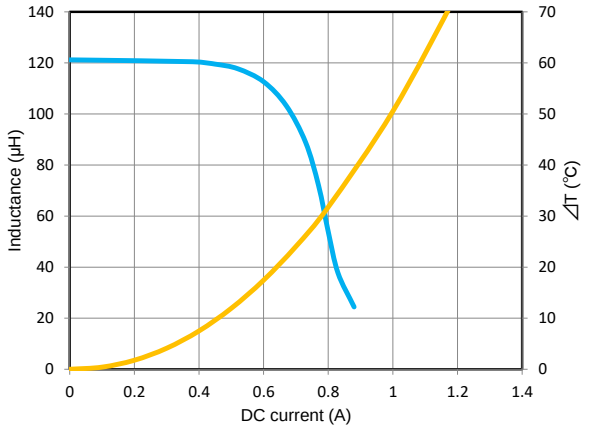

DC bias characteristics vs Temperature Rise Graph

L(25℃) ⊿T

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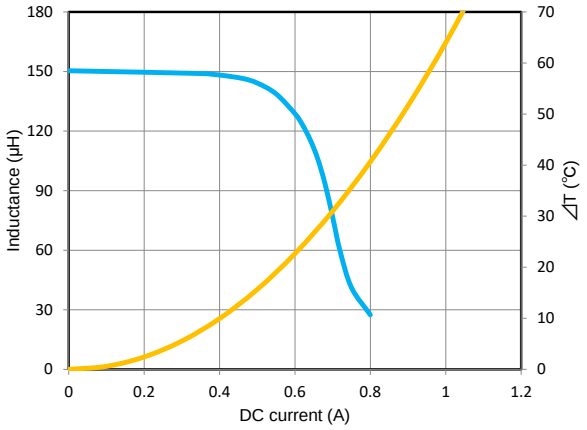

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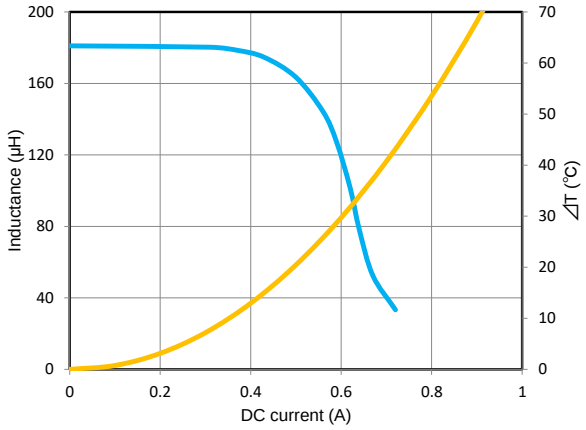

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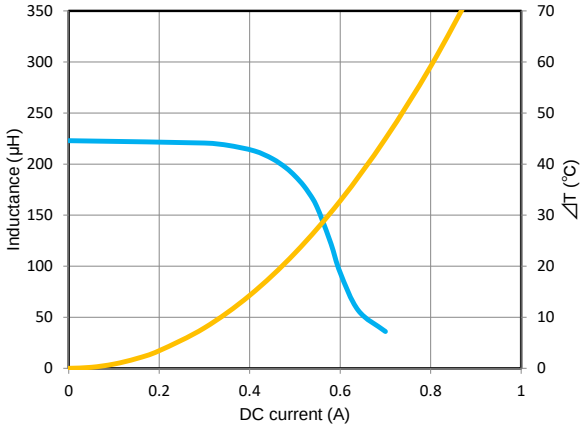

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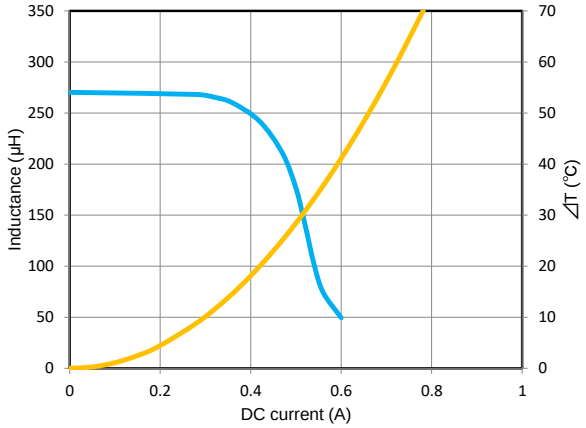

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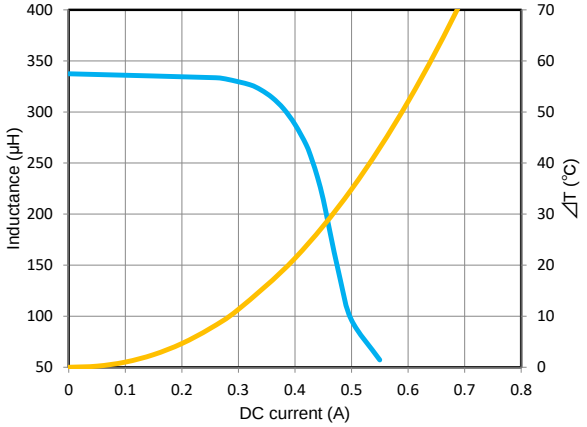

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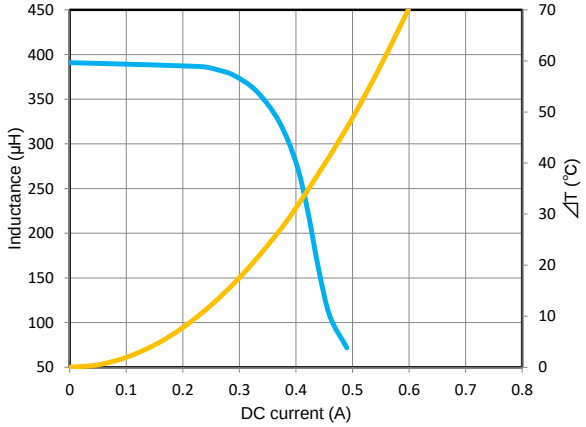
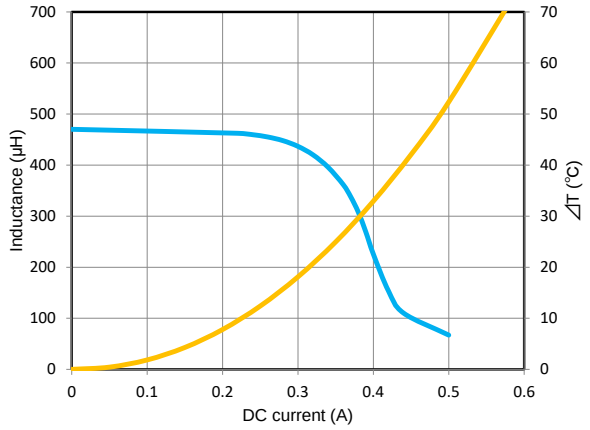


DC bias characteristics vs Temperature Rise Graph

L(25℃) ⊿T

CER7042C-471M



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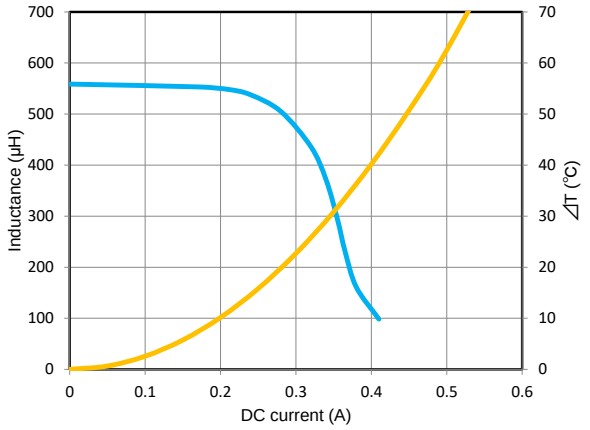

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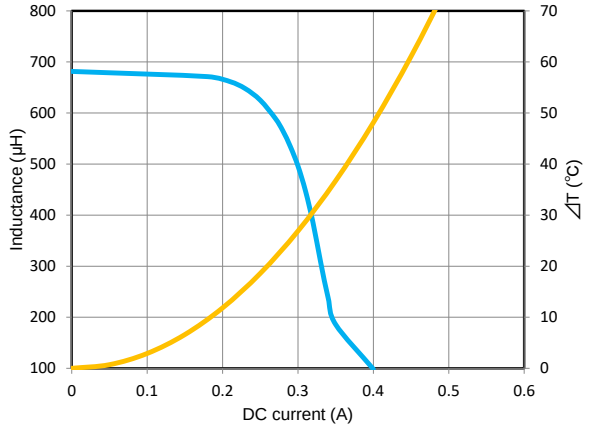

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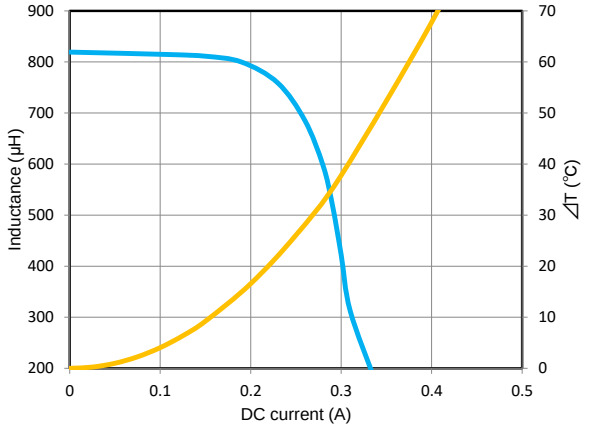

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