

# HER6042C

新产品

RoHS

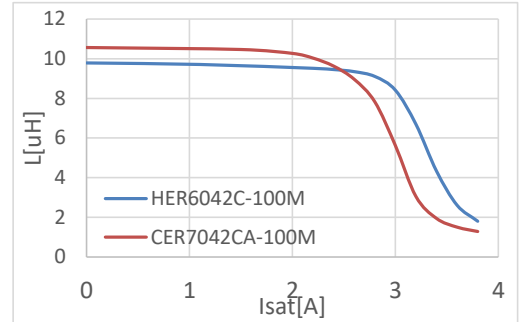
AEC-Q200



## ■ 特长

- 车载上高信赖性使用
- 鼓芯和环芯分别采用不同的磁性材料，提升电流特性
- 电流特性相当于我们的  $7\text{mm}^2$  线圈
- 满足AEC-Q200

工作温度范围：  $-40\text{ }^{\circ}\text{C} \sim +150\text{ }^{\circ}\text{C}$  (包含自身发热)



## ■ 用途

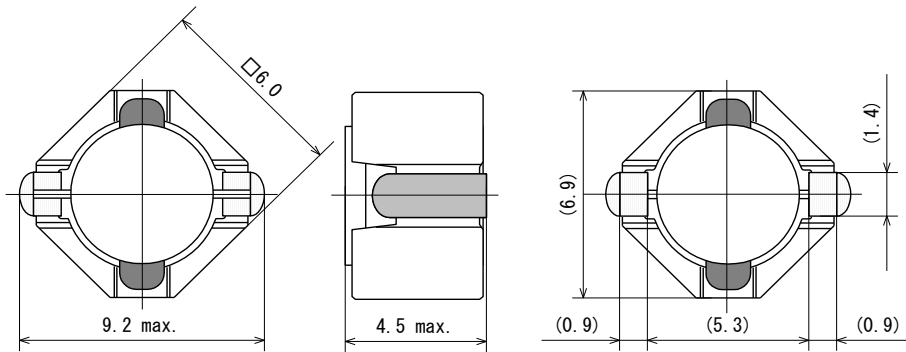
- 音频&映像
- 电视&显示器，迷你音响，AV功放，业务用功放，照相机，录音机
- 电脑
- 个人电脑，打印机，投影仪
- 家电
- LED照明
- 其他
- 各种电源，工业机器，医疗机器，美容机器，能源，无线通讯机

## ■ 磁路构造



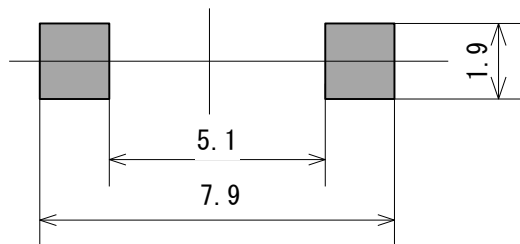
单体重： 0.5 g

## ■ 外形尺寸



(单位：mm)

## ■ 推荐焊盘尺寸



相模电机（深圳）有限公司

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## ■ 电气规格

相模品番	电感量 ( $\mu\text{H}$ )	直流电阻 ( $\Omega$ ) $\pm 30\%$	定格电流			
			直流饱和电流		温度上升电流	
			(A)		(A)	
			Spec.	Typical	Spec.	Typical
HER6042C-R82N	0.82 $\pm 30\%$	0.00800	9.60	11.2	5.10	7.00
HER6042C-1R2N	1.2 $\pm 30\%$	0.0100	8.10	9.40	4.60	6.30
HER6042C-1R6N	1.6 $\pm 30\%$	0.0120	6.80	8.20	4.30	5.80
HER6042C-2R2N	2.2 $\pm 30\%$	0.0130	5.90	7.20	4.00	5.40
HER6042C-3R0N	3.0 $\pm 30\%$	0.0160	5.00	6.30	3.70	5.10
HER6042C-3R6N	3.6 $\pm 30\%$	0.0180	4.60	5.70	3.60	4.90
HER6042C-4R3N	4.3 $\pm 30\%$	0.0200	4.10	5.10	3.30	4.40
HER6042C-5R1N	5.1 $\pm 30\%$	0.0250	3.80	4.70	2.90	4.00
HER6042C-6R2N	6.2 $\pm 30\%$	0.0310	3.40	4.20	2.70	3.60
HER6042C-8R2N	8.2 $\pm 30\%$	0.0420	3.00	3.60	2.20	3.00
HER6042C-100M	10 $\pm 20\%$	0.0560	2.80	3.30	1.90	2.60
HER6042C-120M	12 $\pm 20\%$	0.0630	2.40	3.00	1.80	2.45
HER6042C-150M	15 $\pm 20\%$	0.0710	2.25	2.70	1.65	2.25
HER6042C-180M	18 $\pm 20\%$	0.0820	2.05	2.45	1.55	2.10
HER6042C-220M	22 $\pm 20\%$	0.0900	1.80	2.25	1.50	2.00
HER6042C-270M	27 $\pm 20\%$	0.100	1.65	2.05	1.35	1.90
HER6042C-330M	33 $\pm 20\%$	0.110	1.50	1.85	1.30	1.80
HER6042C-390M	39 $\pm 20\%$	0.130	1.40	1.70	1.25	1.70
HER6042C-470M	47 $\pm 20\%$	0.150	1.30	1.60	1.15	1.55
HER6042C-560M	56 $\pm 20\%$	0.220	1.15	1.40	0.950	1.30
HER6042C-680M	68 $\pm 20\%$	0.260	1.05	1.25	0.870	1.15
HER6042C-820M	82 $\pm 20\%$	0.320	1.00	1.20	0.780	1.05
HER6042C-101M	100 $\pm 20\%$	0.420	0.910	1.05	0.660	0.880
HER6042C-121M	120 $\pm 20\%$	0.530	0.810	0.970	0.600	0.820
HER6042C-151M	150 $\pm 20\%$	0.590	0.740	0.890	0.570	0.780
HER6042C-181M	180 $\pm 20\%$	0.670	0.680	0.810	0.540	0.730
HER6042C-221M	220 $\pm 20\%$	0.750	0.620	0.750	0.510	0.690
HER6042C-271M	270 $\pm 20\%$	0.950	0.550	0.670	0.440	0.600
HER6042C-331M	330 $\pm 20\%$	1.20	0.480	0.590	0.400	0.540
HER6042C-391M	390 $\pm 20\%$	1.54	0.420	0.510	0.350	0.480
HER6042C-471M	470 $\pm 20\%$	1.96	0.400	0.480	0.300	0.410
HER6042C-561M	560 $\pm 20\%$	2.18	0.350	0.440	0.280	0.380

- 电感量测试条件 : 100kHz, 1V
- 定格电流: 直流饱和电流和温度上升电流中较小的值
  - 1. 直流饱和电流 (Spec.) : 初期电感量下降 30% 以内的电流值
  - 直流饱和电流 (Typical) : 初期电感量下降 30% 的电流值
  - 2. 温度上升电流 (Spec.) : 磁芯表面温度上升至 40℃ 以下的直流电流
  - 温度上升电流 (Typical) : 磁芯表面温度上升至 40℃ 的直流电流



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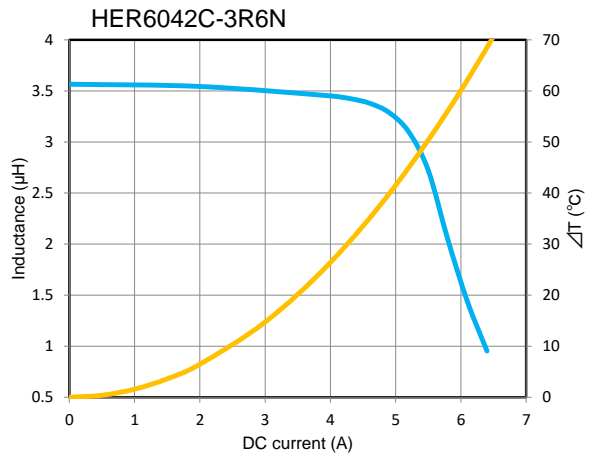
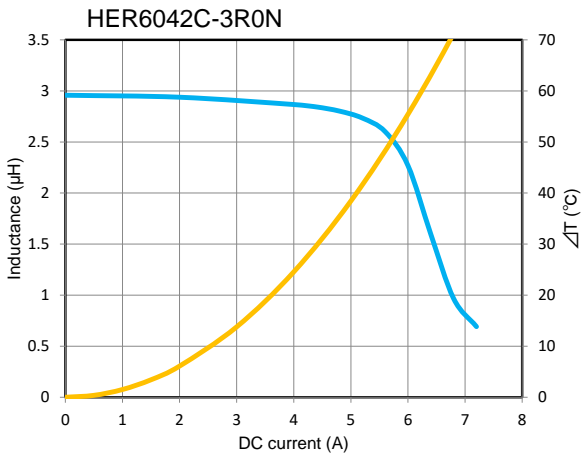
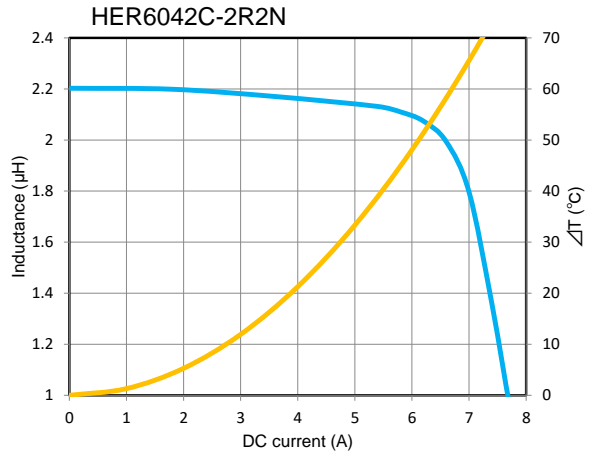
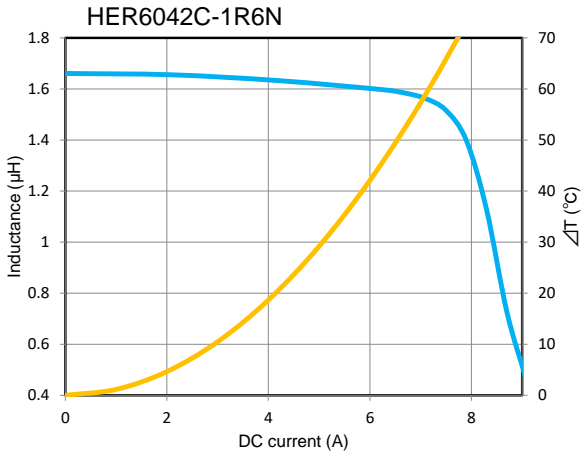
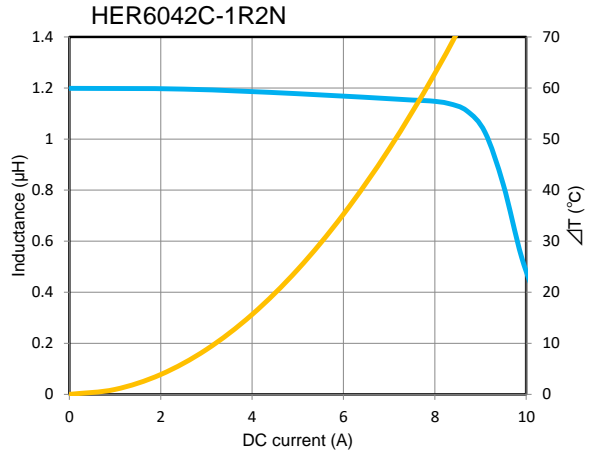
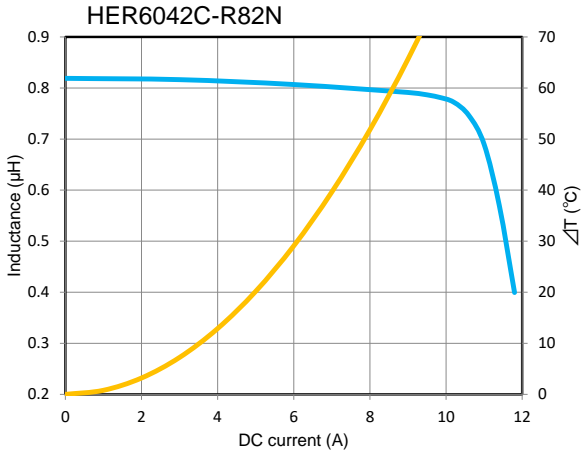
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# DC bias characteristics vs Temperature Rise Graph

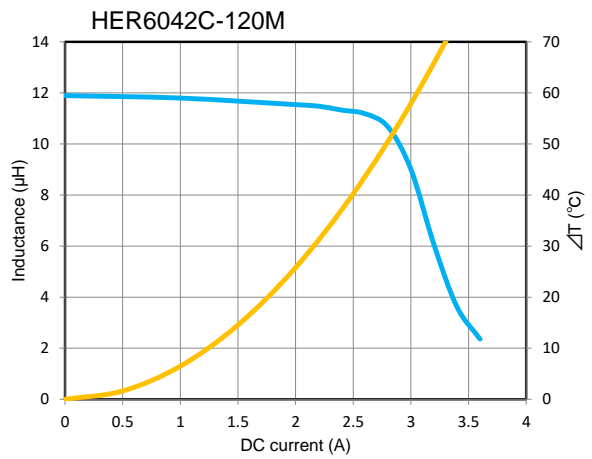
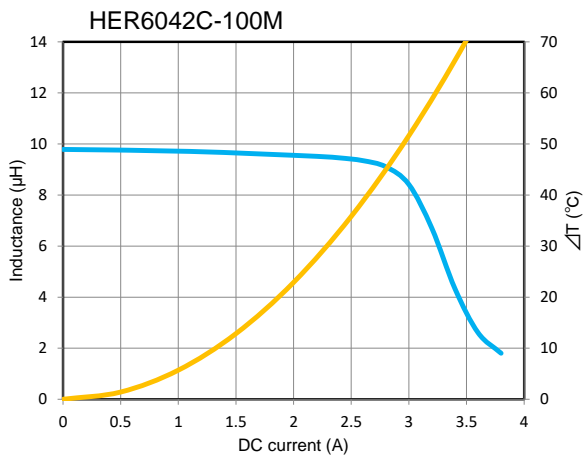
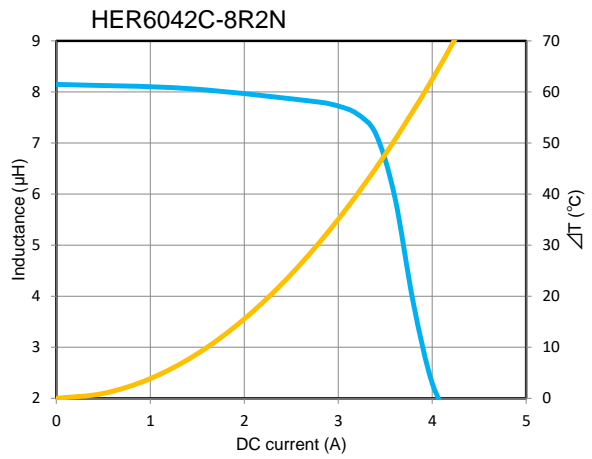
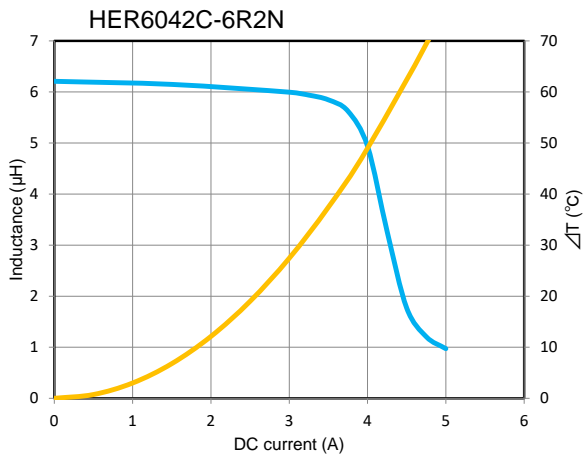
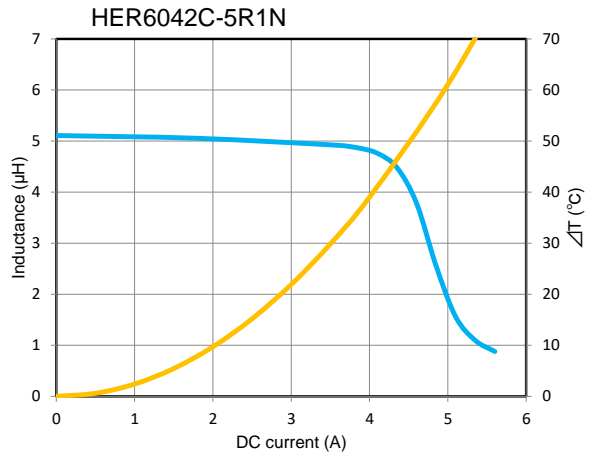
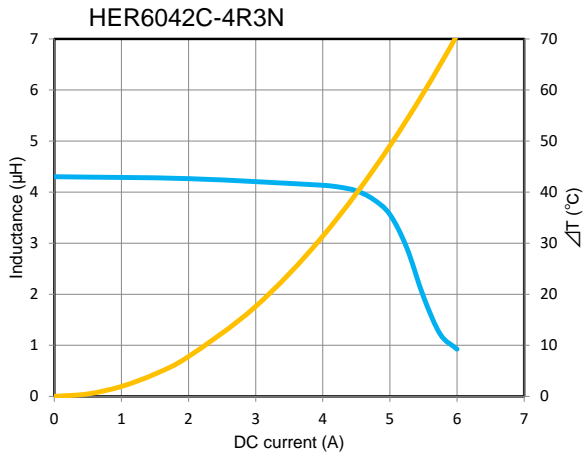
■ L(25°C)      ■  $\Delta T$



# DC bias characteristics vs Temperature Rise Graph

 L(25°C)

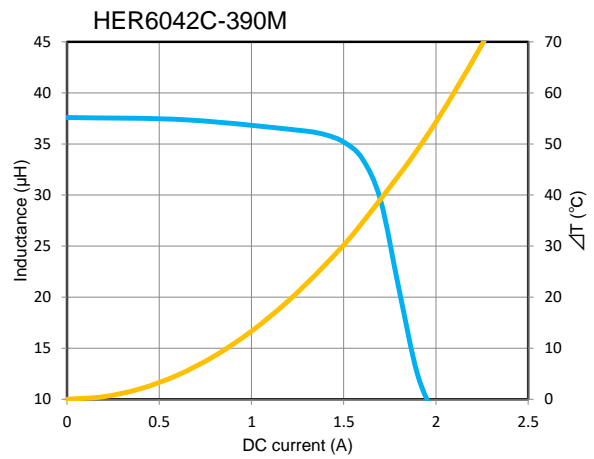
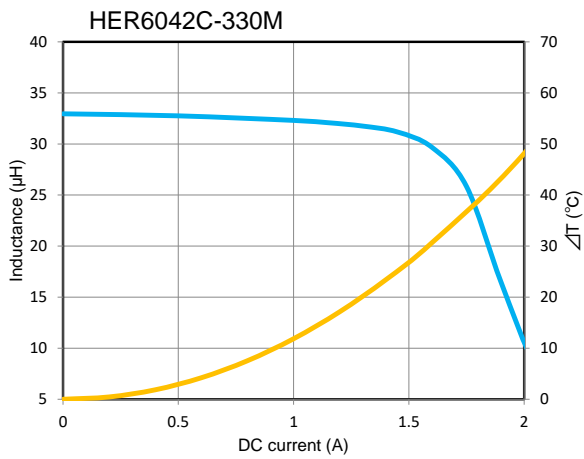
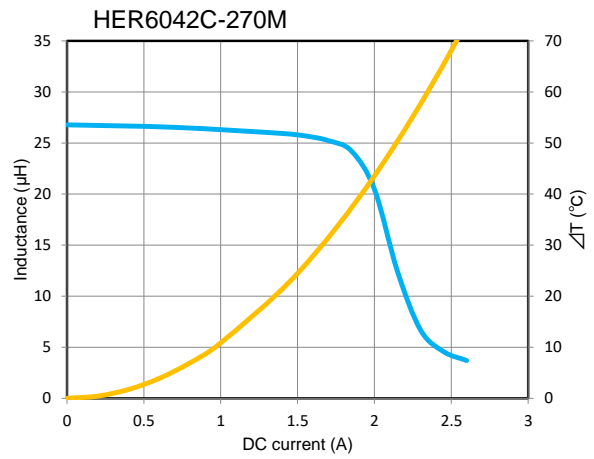
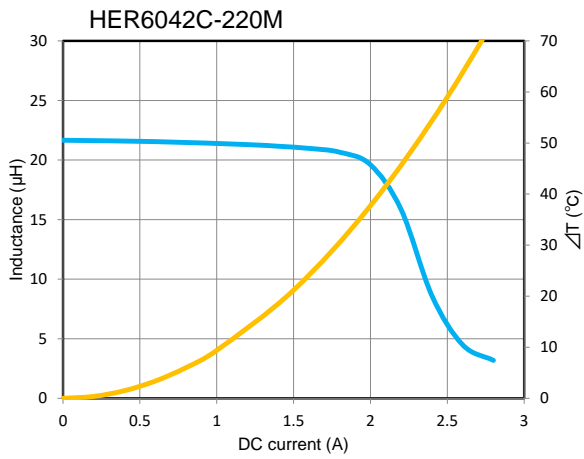
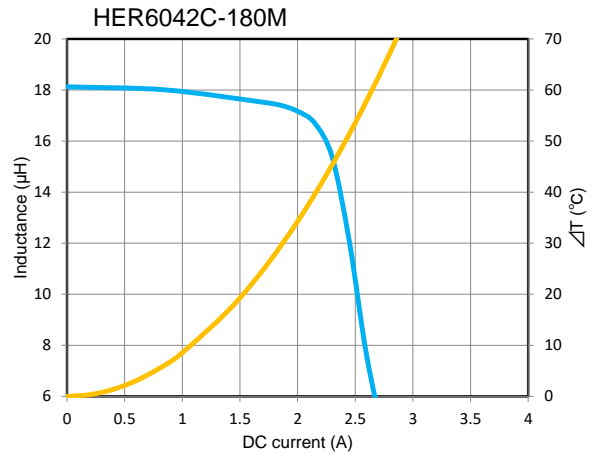
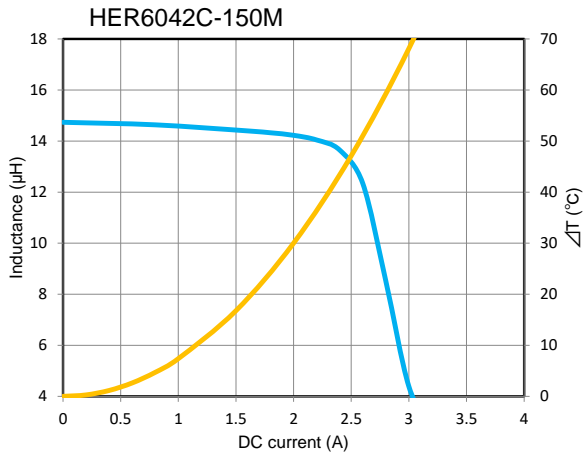
  $\Delta T$



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 L(25°C)

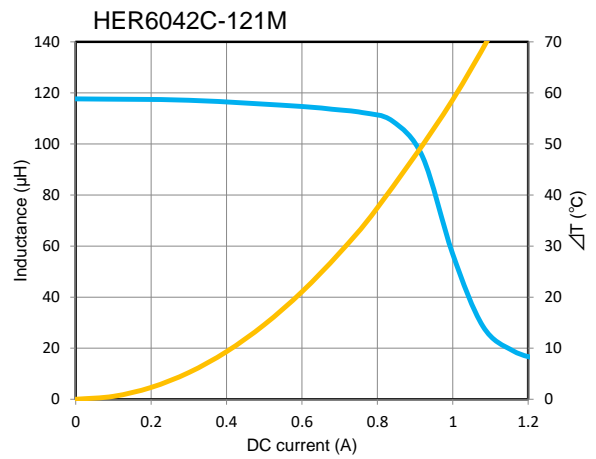
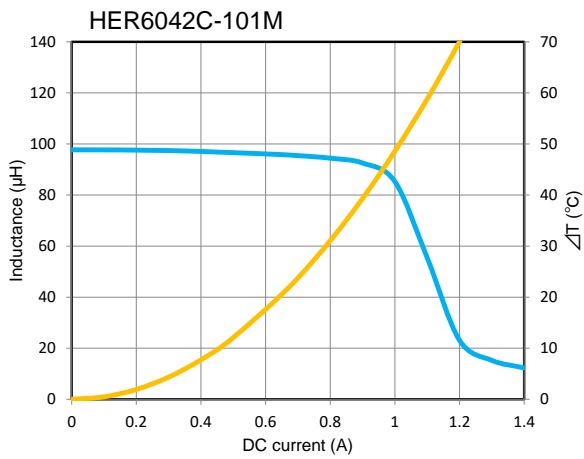
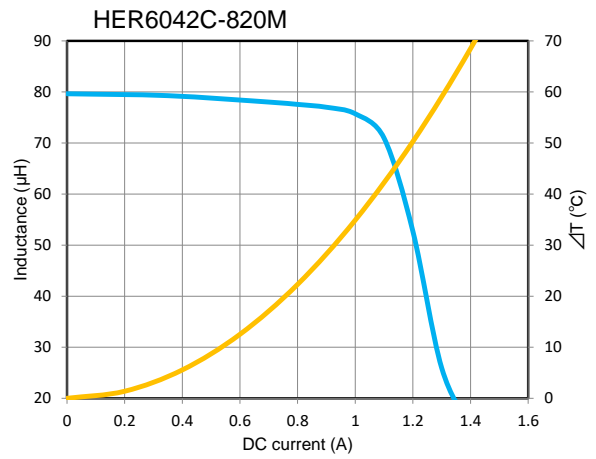
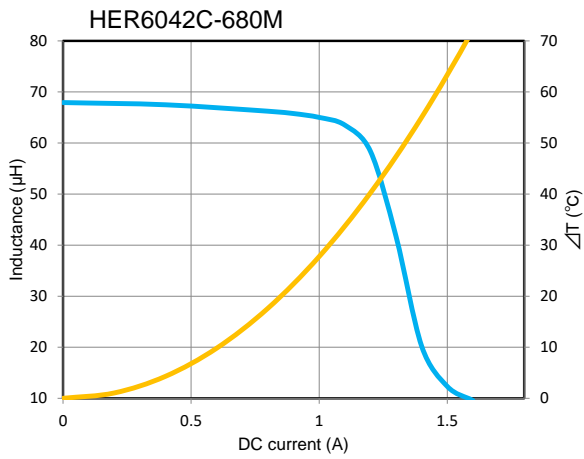
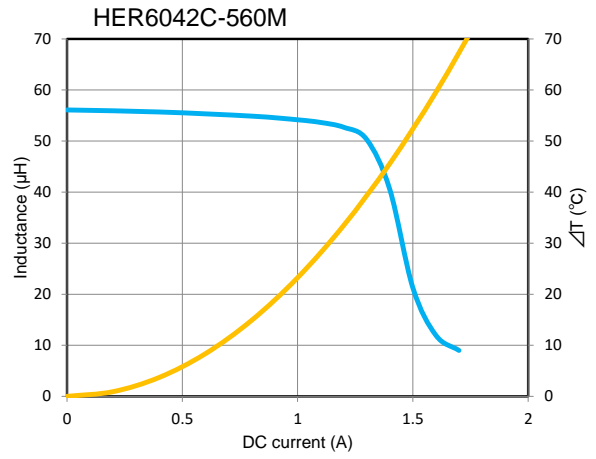
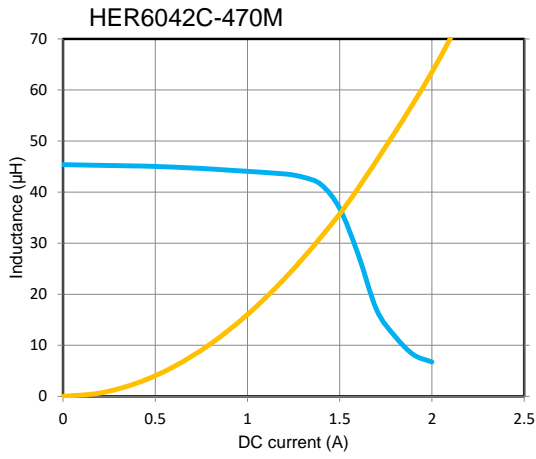
  $\Delta T$



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 L(25°C)

  $\Delta T$



# DC bias characteristics vs Temperature Rise Graph

■ L(25°C)      ■  $\Delta T$

