



PQ108081 Series



Halogen Free

1. Features of PQ108081 series:

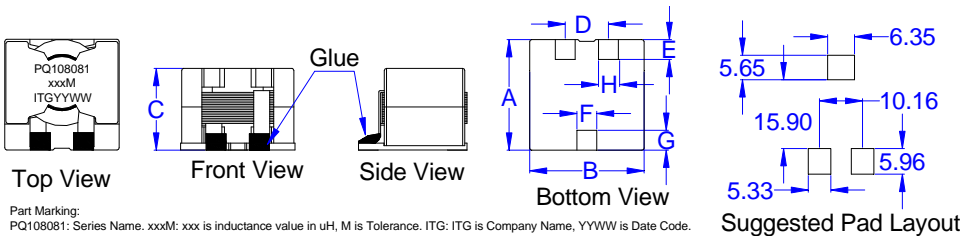
- Ferrite based SMD Inductor with lower core loss.
- Inductance range: 3.3uH up to 560.0uH, custom values are welcomed.
- High current output chokes, up to 89.0 Amp with approx. 30% roll off.
- High energy storage, very low resistance.
- Operating Temperature Range -55°C to +130°C, RoHs & HF compliance.



2. Electrical Characteristics of PQ108081 series:

ITG Part Number	OCL ¹ (uH) ± 20%	DCR (mΩ) ± 10% or ± 15%	Isat1 ² (A) @25°C	Isat2 ³ (A) @25°C	Isat3 ⁴ (A) @25°C	Isat4 ⁵ (A) @100°C	Irms ⁶ (A) @25°C
PQ108081-3R3MHF	3.30	2.50 ,10%	85.00	87.00	89.00	77.00	31.00
PQ108081-4R7MHF	4.70	2.50 ,10%	60.50	63.00	65.00	50.00	31.00
PQ108081-6R8MHF	6.80	2.50 ,10%	42.00	45.00	46.00	36.00	31.00
PQ108081-8R2MHF	8.20	2.50 ,10%	36.00	38.50	39.40	34.00	31.00
PQ108081-100MHF	10.00	3.20 ,10%	31.00	33.00	34.10	26.00	26.80
PQ108081-120MHF	12.00	3.20 ,10%	28.50	31.00	32.00	24.50	26.80
PQ108081-150MHF	15.00	3.50 ,10%	25.50	27.50	28.10	22.50	25.50
PQ108081-180MHF	19.00	4.50 ,10%	22.50	24.90	25.60	19.50	22.00
PQ108081-220MHF	24.00	6.20 ,10%	20.50	22.30	23.00	17.50	19.00
PQ108081-330MHF	33.00	8.90 ,10%	17.50	19.00	19.80	15.00	15.60
PQ108081-390MHF	39.00	8.90 ,10%	15.50	17.50	18.10	14.00	15.60
PQ108081-470MHF	44.00	11.50 ,10%	15.00	16.80	17.40	13.20	13.70
PQ108081-500MHF	50.00	11.50 ,10%	14.00	15.50	16.20	12.50	13.70
PQ108081-560MHF	56.00	15.00 ,10%	13.50	14.80	15.20	11.50	12.00
PQ108081-620MHF	62.00	15.00 ,10%	12.50	13.40	14.00	10.50	12.00
PQ108081-680MHF	68.00	15.00 ,10%	11.00	12.30	12.90	10.00	12.00
PQ108081-860MHF	86.00	15.00 ,10%	9.00	9.70	10.50	8.40	12.00
PQ108081-101MHF	100.00	22.00 ,15%	8.90	9.50	9.80	7.50	10.00
PQ108081-151MHF	150.00	31.50 ,15%	7.70	8.30	8.70	6.50	7.50
PQ108081-221MHF	220.00	41.10 ,15%	5.50	6.00	6.30	4.50	6.50
PQ108081-331MHF	330.00	56.00 ,15%	4.50	5.10	5.30	4.00	5.50
PQ108081-471MHF	470.00	76.50 ,15%	3.90	4.30	4.50	3.30	4.50
PQ108081-561MHF	560.00	95.00 ,15%	3.50	3.75	4.00	3.00	4.00

3. Mechanical Dimensions of PQ108081 series (unit: mm):



Type	PQ108081
A	27.94 (Max.)
B	27.94 (Max.)
C	20.0 (Max.)
D	10.16 ± 0.30
E	4.60 ± 0.20
F	4.70 ± 0.20
G	4.60 ± 0.20
H	4.70 ± 0.20

Note:

1. Open Circuit Inductance(OCL) and L@Irms and L@Isat are measured at: 300KHz, 0.1V (Ta=25°C).
2. Isat1: DC current that causes inductance to drop 10%(Typ.) from OCL (Ta=25°C).
3. Isat2: DC current that causes inductance to drop 20%(Typ.) from OCL (Ta=25°C).
4. Isat3: DC current that causes inductance to drop 30%(Typ.) from OCL (Ta=25°C).
5. Isat4: DC current that causes inductance to drop 30%(Typ.) from OCL (Ta=100°C).
6. Irms: DC current for temperature rise of 40°C (Typ.) without core loss. Derating is necessary for AC currents, PCB pad layout, trace thickness and width, air-flow and proximity of other heat generating components will affect the temperature rise. It is recommended the part temperature not exceed 130°C under worst case operating conditions verified in the end application.

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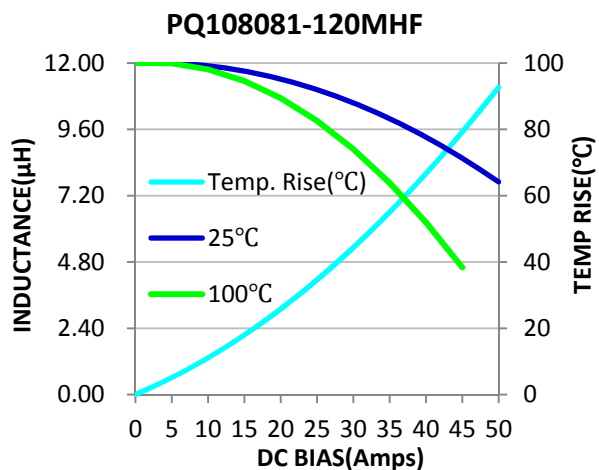
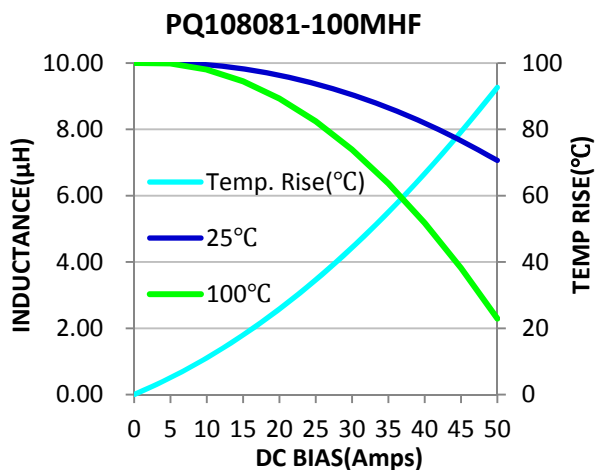
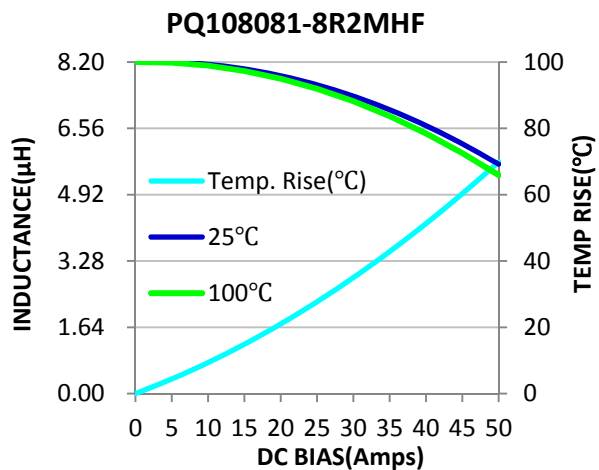
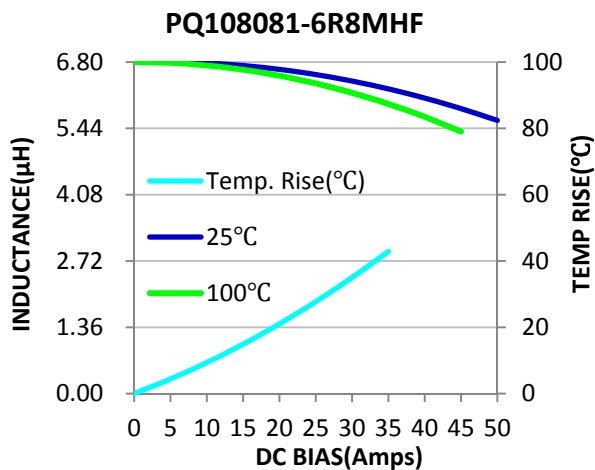
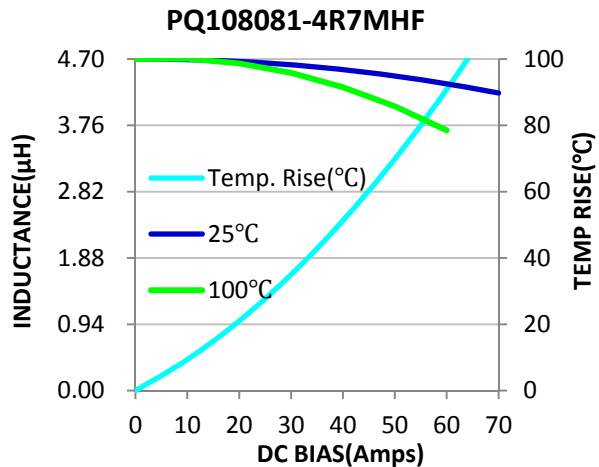
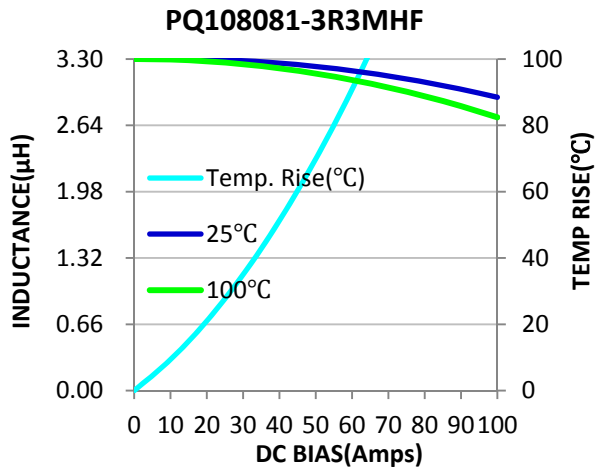
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4. Inductance vs. Current vs. Temperature Rise Characteristics of PQ108081 Series :



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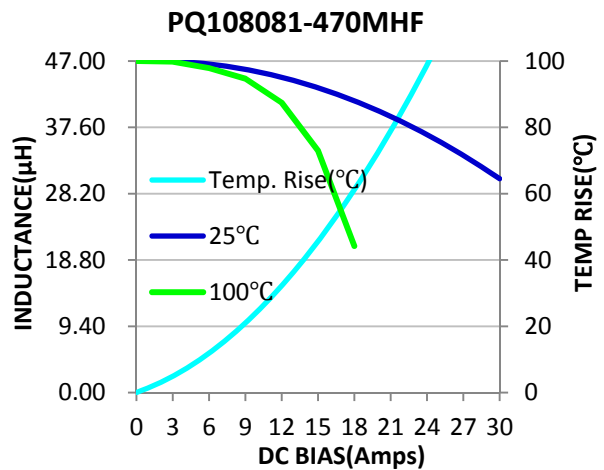
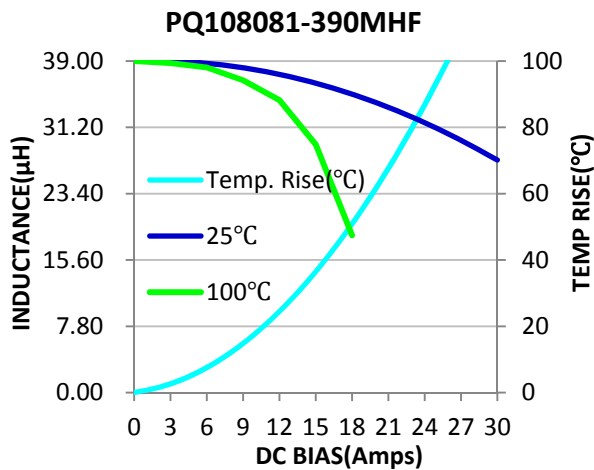
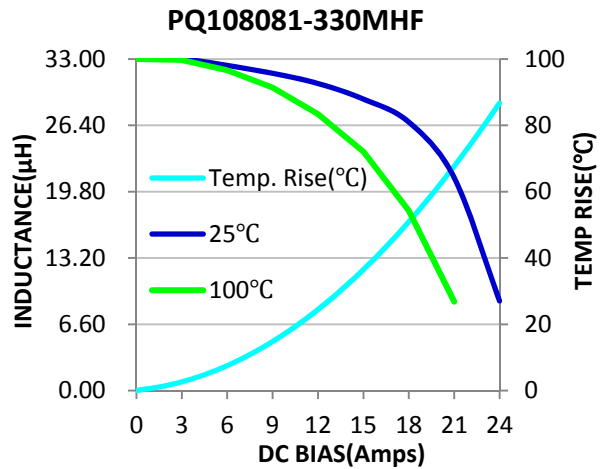
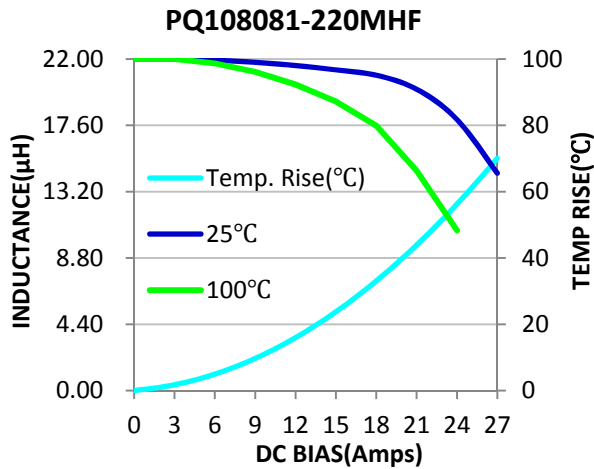
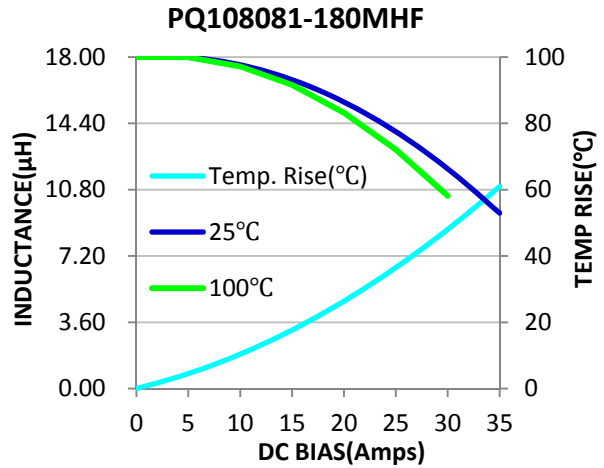
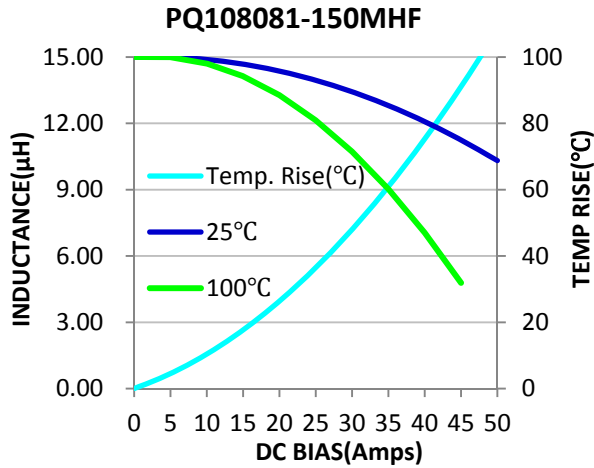
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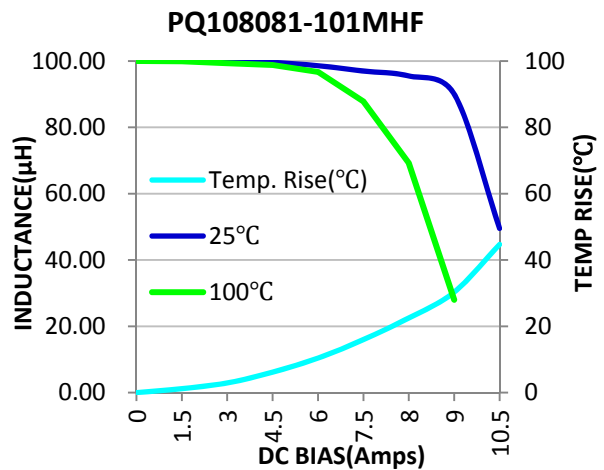
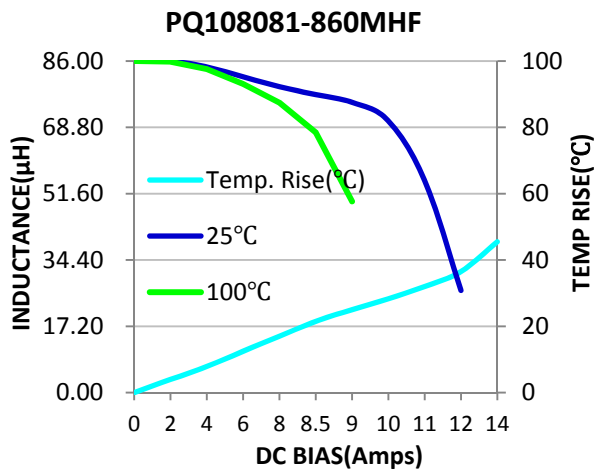
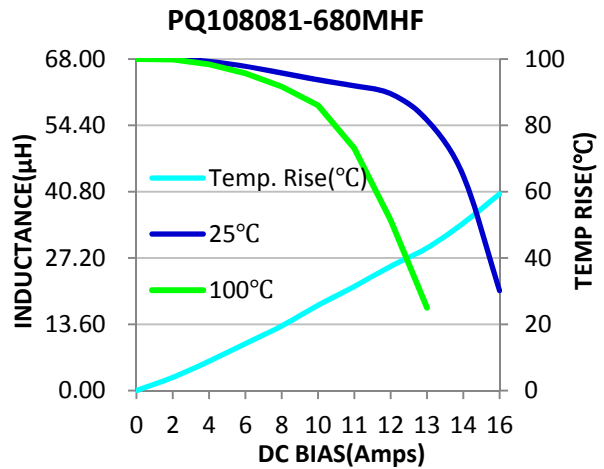
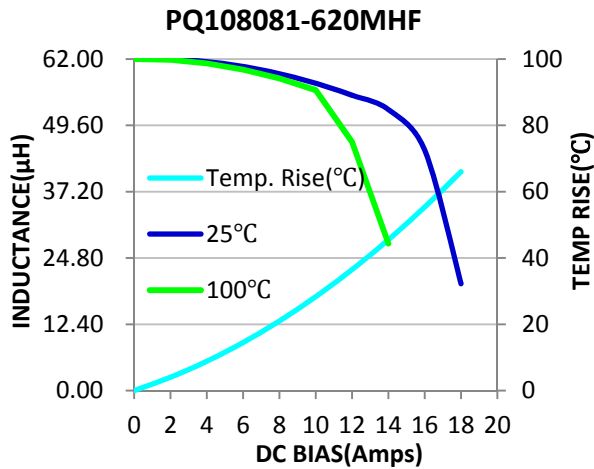
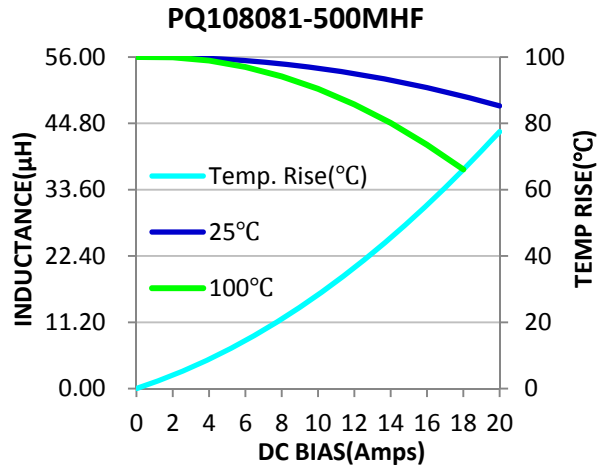
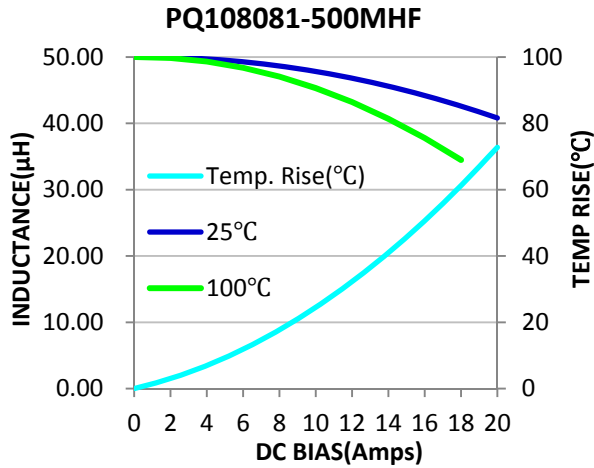
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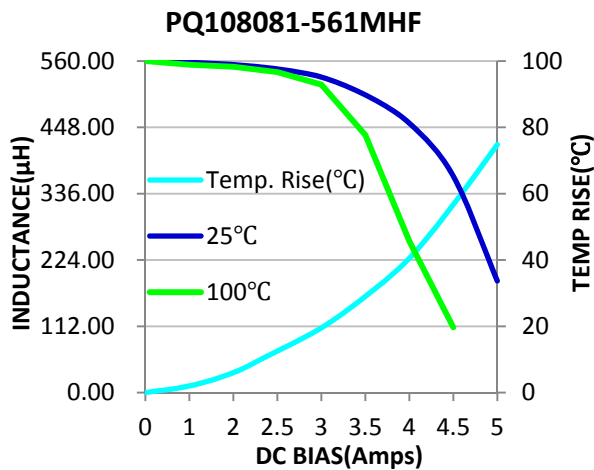
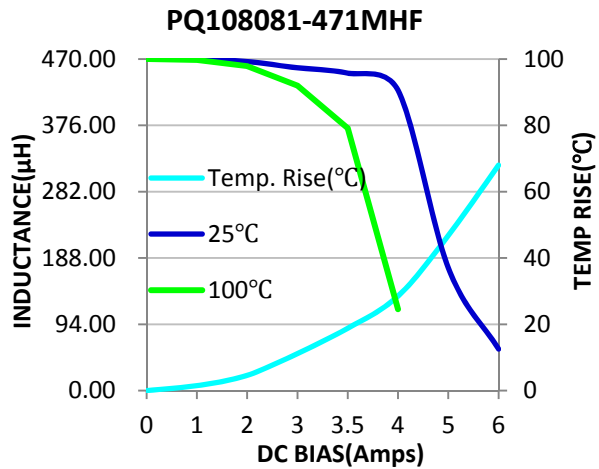
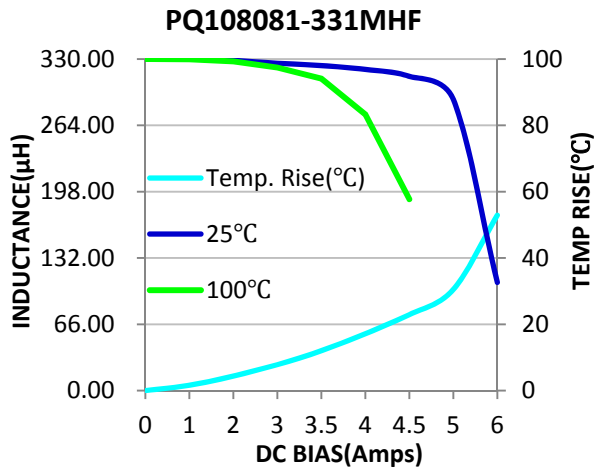
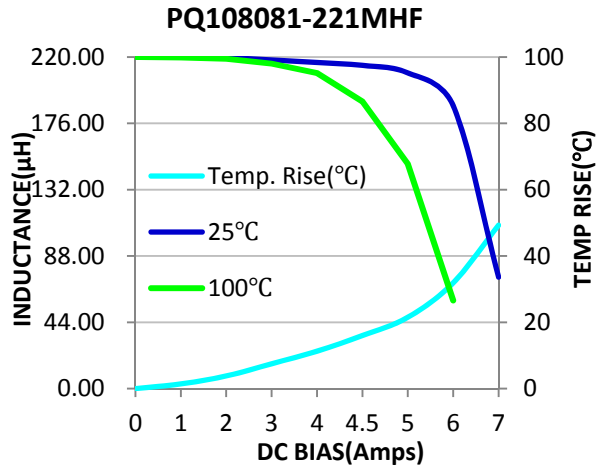
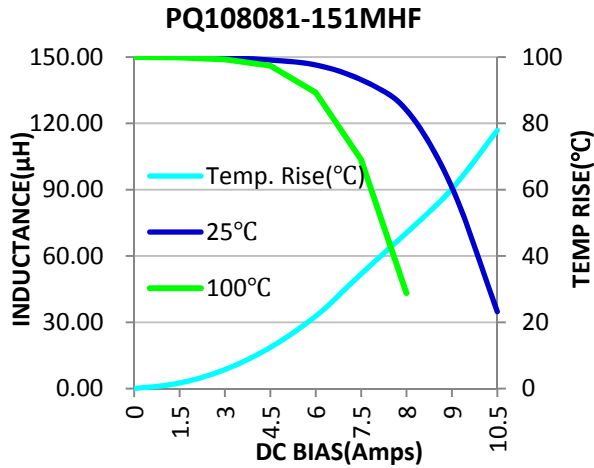
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