

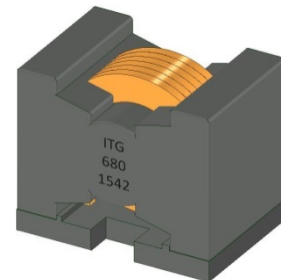


DHP106095S Series



1. Features of DHP106095S Series:

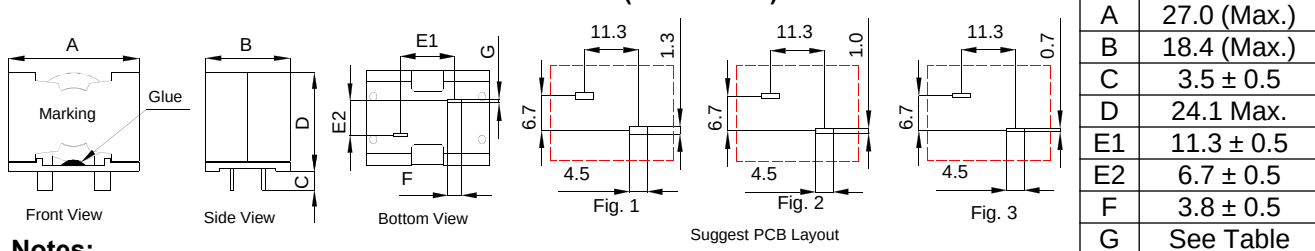
- Ferrite based DIP Inductor with lower core loss.
- Custom values are welcomed.
- High current output chokes, with up to 89.0 Amp with approx. 30% roll off.
- Flat wire winding provides extremely low DC and AC resistance.
- Vertical mounting provides small footprint.
- Operating Temperature Range -55°C to 130°C
- RoHS and HF Compliant.



2. Electrical Characteristics of DHP106095S Series:

ITG Part Number	Inductance (μ H) $\pm 20\%$	DCR (m Ω) $\pm 10\%$	Isat ¹ (A) @25°C	Isat ² (A) @25°C	Isat ³ (A) @25°C	Irms (A) @25°C	Dim. G (mm) ± 0.1	PCB Layout Fig.
DHP106095S-3R3MHF	3.3	2.2	85.0	87.0	89.0	31.0	0.80	1
DHP106095S-4R7MHF	4.7	2.2	60.5	63.0	65.0	31.0	0.80	1
DHP106095S-6R8MHF	6.8	2.2	42.0	45.0	46.0	31.0	0.80	1
DHP106095S-8R2MHF	8.2	2.2	36.0	38.5	39.4	31.0	0.80	1
DHP106095S-100MHF	10.0	2.9	31.0	33.0	34.1	26.8	0.70	2
DHP106095S-120MHF	12.0	2.9	28.5	31.0	32.0	26.8	0.70	2
DHP106095S-150MHF	15.0	3.2	25.5	27.5	28.1	25.5	0.70	2
DHP106095S-180MHF	19.0	4.2	22.5	24.9	25.6	22.0	0.60	2
DHP106095S-220MHF	24.0	5.9	20.5	22.3	23.0	19.0	0.50	2
DHP106095S-330MHF	33.0	8.6	17.5	19.0	19.8	15.6	0.40	3
DHP106095S-390MHF	39.0	8.6	15.5	17.5	18.1	15.6	0.40	3
DHP106095S-470MHF	44.0	11.2	15.0	16.8	17.4	13.7	0.35	3
DHP106095S-500MHF	50.0	11.2	14.0	15.5	16.2	13.7	0.35	3
DHP106095S-560MHF	56.0	14.7	13.5	14.8	15.2	12.0	0.30	3
DHP106095S-620MHF	62.0	14.7	12.5	13.4	14.0	12.0	0.30	3
DHP106095S-680MHF	68.0	14.7	11.0	12.3	12.9	12.0	0.30	3
DHP106095S-860MHF	86.0	14.7	9.0	9.7	10.5	12.0	0.30	3

3. Mechanical Dimension of DHP106095S Series (Unit in mm):



Notes:

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. 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 should not exceed 125°C under worst case operating conditions verified in the end application.

● New York 1 914 347 2474 ● Taipei 886 2 2698 8669 ● Kaohsiung 886 7 350 2275
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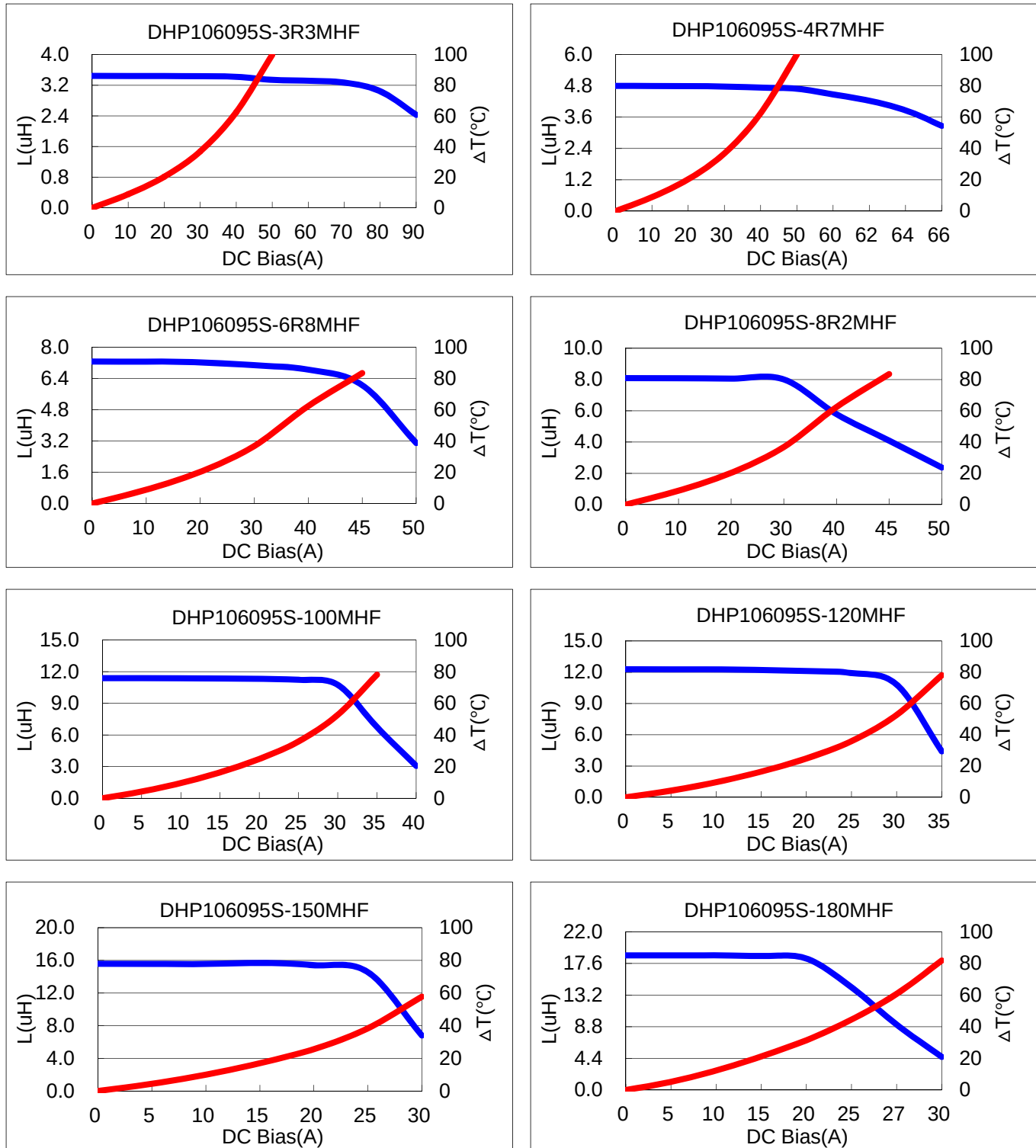
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4. Inductance vs. DC current vs. Temperature curve



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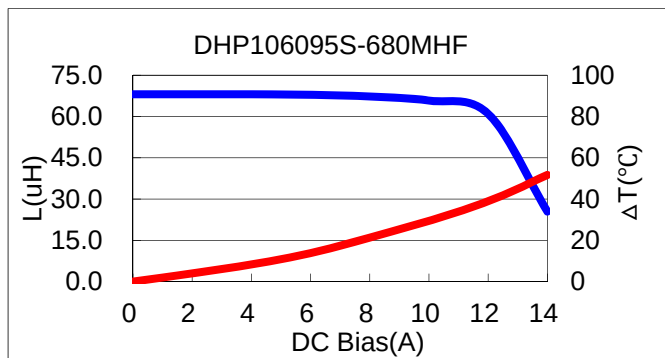
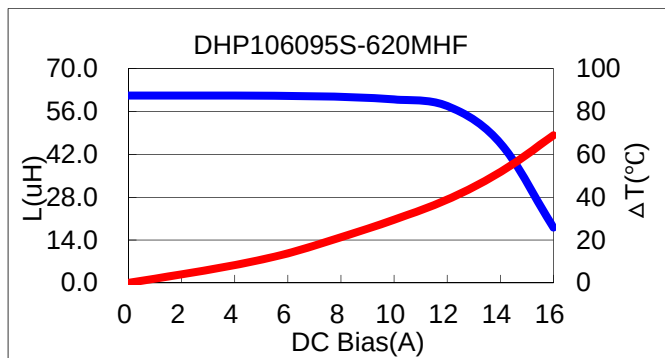
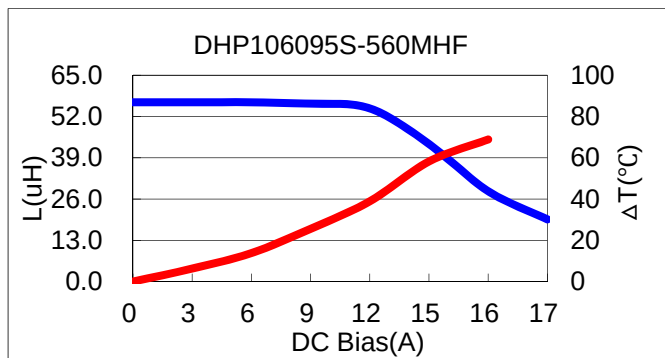
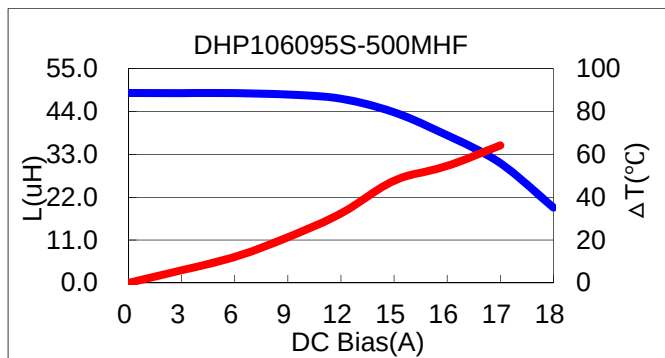
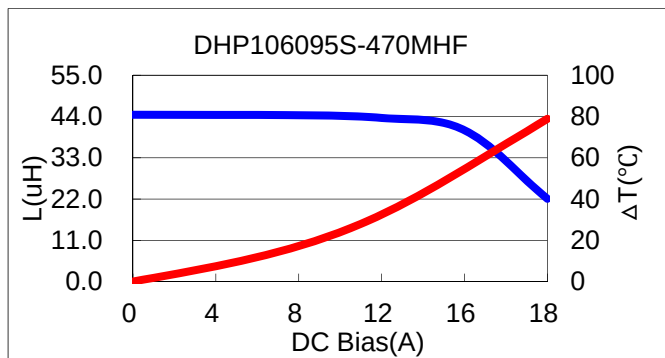
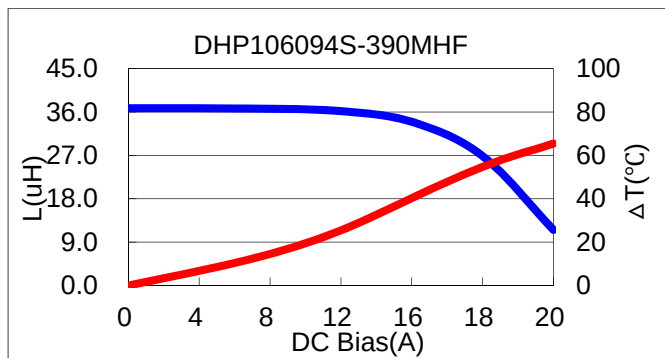
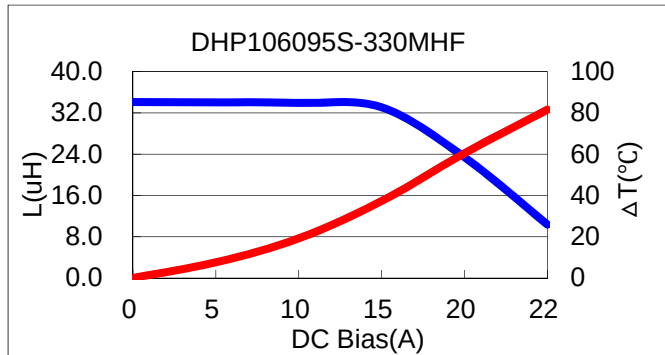
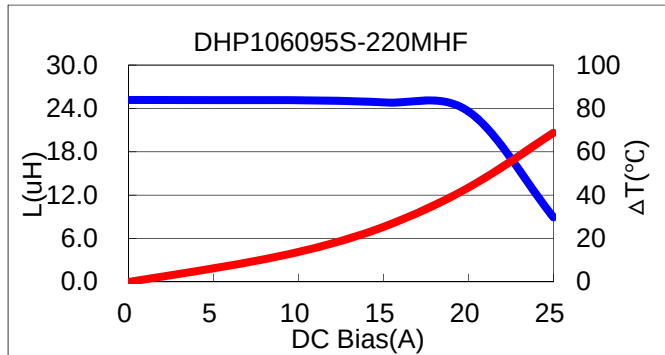
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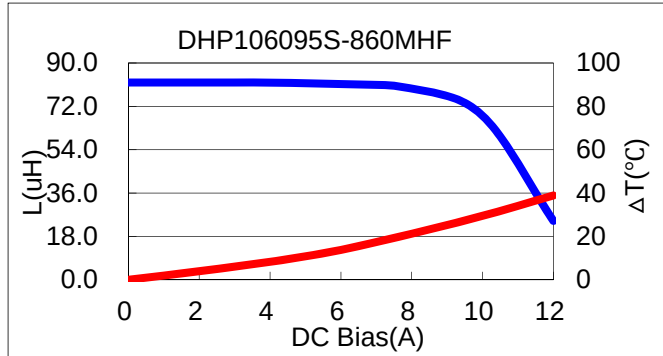
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