

1. PART NO. EXPRESSION :

$\text{S D L 0 8 0 6 P - R 4 7 M F}$
 (a) (b) (c) (d)(e)

(a) Series code

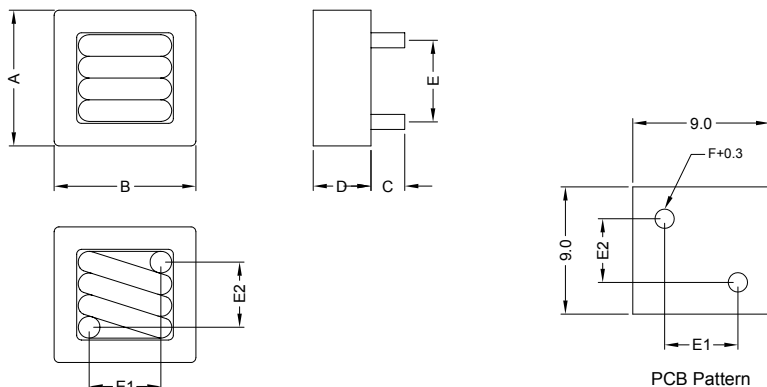
(b) Dimension code

(c) Inductance code : R47 = 0.47uH

(d) Tolerance code : M = $\pm 20\%$

(e) F : Lead Free

2. CONFIGURATION & DIMENSIONS :

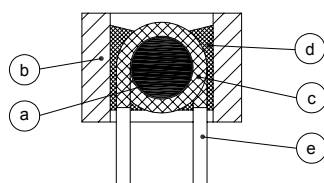


Part No.	A mm	B mm	C mm	D mm	E mm	E1 mm	E2 mm	F mm
SDL0806P-R47MF	8.2 Max.	8.2 Max.	3.5 $\pm$ 0.5	6.0 Max.	6.3 $\pm$ 0.5	4.5 $\pm$ 0.5	4.4 $\pm$ 0.5	0.9 $\pm$ 0.1
SDL0806P-R60MF	8.2 Max.	8.2 Max.	3.5 $\pm$ 0.5	6.0 Max.	6.3 $\pm$ 0.5	4.5 $\pm$ 0.5	4.4 $\pm$ 0.5	0.9 $\pm$ 0.1
SDL0806P-R80MF	8.2 Max.	8.2 Max.	3.5 $\pm$ 0.5	6.0 Max.	6.2 $\pm$ 0.5	4.5 $\pm$ 0.5	4.3 $\pm$ 0.5	0.8 $\pm$ 0.1
SDL0806P-1R0MF	8.2 Max.	8.2 Max.	3.5 $\pm$ 0.5	6.0 Max.	6.3 $\pm$ 0.5	4.4 $\pm$ 0.5	4.5 $\pm$ 0.5	0.7 $\pm$ 0.1

3. SCHEMATIC :



4. MATERIALS :



(a) Core : Iron Powder R Core

(b) Core : Iron Powder RI Core

(c) Wire : Enamelled Copper Wire

(d) Adhesive : Epoxy

(e) Terminal : Tinned Copper Plate

5. GENERAL SPECIFICATION :

a) Ambient temp. : 25°C

b) Irms(A) : Will cause temperature rise approximately 40°C without core loss

c) Isat(A) : Will cause L₀ to drop approximately 20%



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NOTE : Specifications subject to change without notice. Please check our website for latest information.

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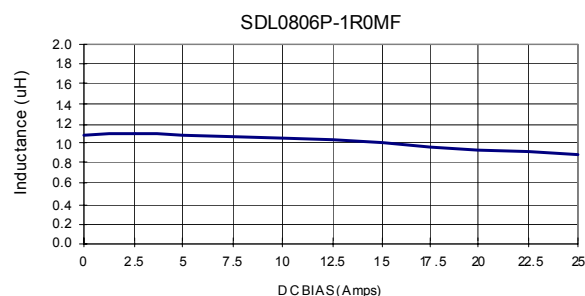
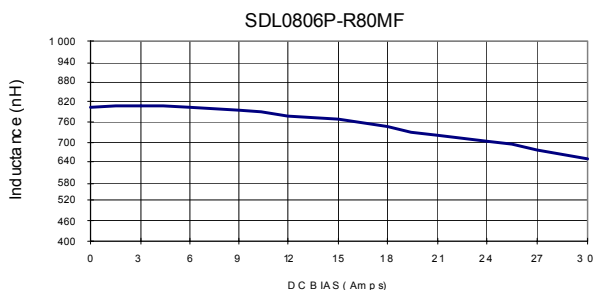
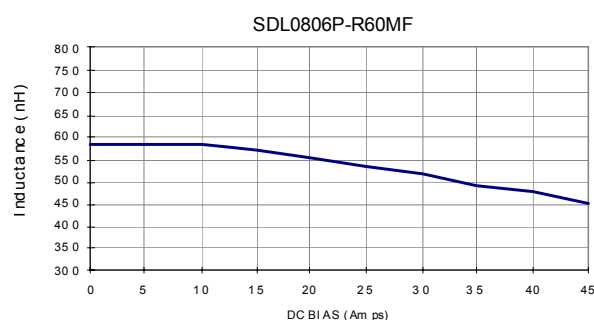
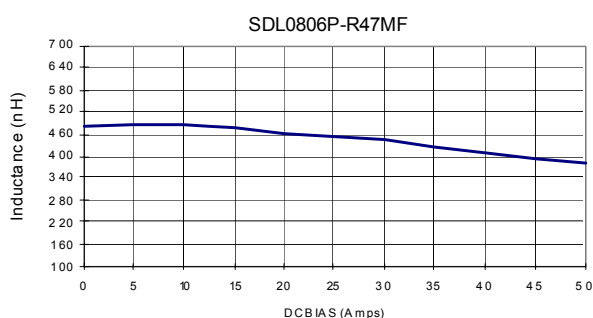
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6. ELECTRICAL CHARACTERISTICS :

Part No.	Inductance L_0 (μ H)	Test Frequency (Hz)	DCR (m Ω) $\pm 8\%$	I _{rms} (A) Max.	I _{sat} (A) Max.
SDL0806P-R47MF	0.47 $\pm 20\%$	1.0V / 100K	1.90	22	38
SDL0806P-R60MF	0.60 $\pm 20\%$	1.0V / 100K	1.90	21	34
SDL0806P-R80MF	0.80 $\pm 20\%$	1.0V / 100K	2.90	17	27
SDL0806P-1R0MF	1.00 $\pm 20\%$	1.0V / 100K	4.30	14	22

7. INDUCTANCE VS. DC BIAS CURVES :



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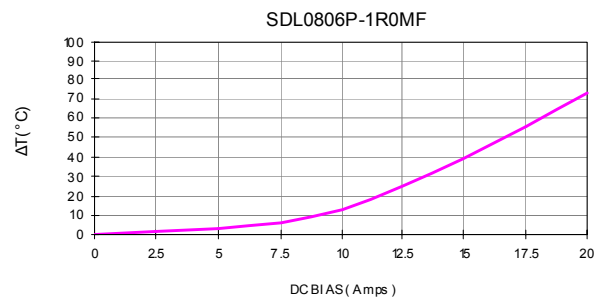
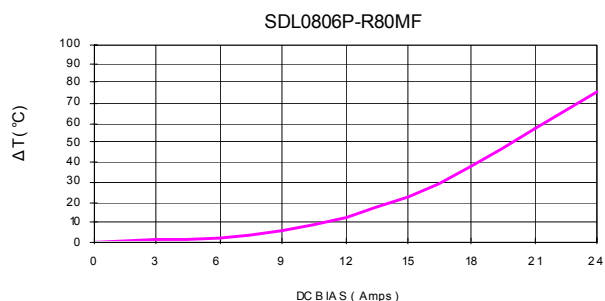
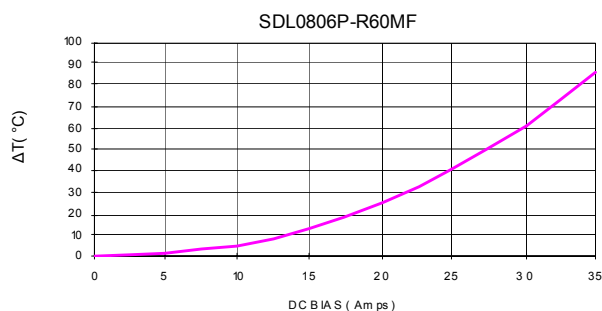
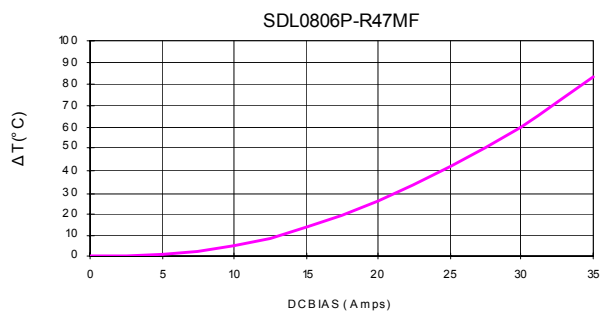
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8. TEMPERATURE RISE VS DC BIAS CURVES :



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