

HIGH CURRENT POWER INDUCTORS

SDL1008P SERIES

1. PART NO. EXPRESSION :

SDL1008P-R47MF

(a) (b) (c) (d)(e)

(a) Series code

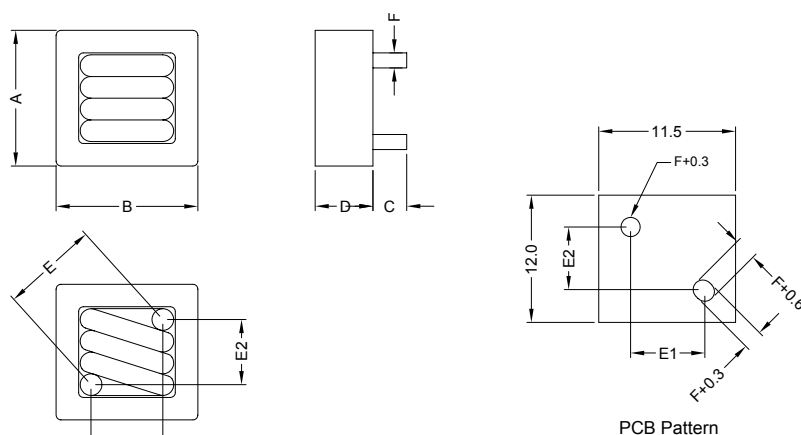
(b) Dimension code

(c) Inductance code : R47 = 0.47uH

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

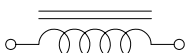
(e) F : Lead Free

2. CONFIGURATION & DIMENSIONS :

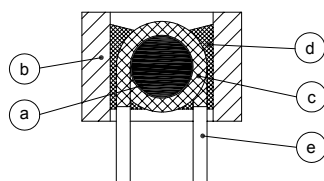


Part No.	A mm	B mm	C mm	D mm	E mm	E1 mm	E2 mm	F mm
SDL1008P-R47MF	11.0 Max.	11.5 Max.	3.5 $\pm$ 0.5	8.5 Max.	8.2 $\pm$ 0.5	6.0 $\pm$ 0.5	5.6 $\pm$ 0.5	1.4 $\pm$ 0.1
SDL1008P-R60MF	11.0 Max.	11.5 Max.	3.5 $\pm$ 0.5	8.5 Max.	8.2 $\pm$ 0.5	6.0 $\pm$ 0.5	5.6 $\pm$ 0.5	1.4 $\pm$ 0.1
SDL1008P-R80MF	11.0 Max.	11.5 Max.	3.5 $\pm$ 0.5	8.5 Max.	8.6 $\pm$ 0.5	6.2 $\pm$ 0.5	5.9 $\pm$ 0.5	1.3 $\pm$ 0.1
SDL1008P-1R0MF	11.0 Max.	11.5 Max.	3.5 $\pm$ 0.5	8.5 Max.	8.6 $\pm$ 0.5	6.2 $\pm$ 0.5	5.9 $\pm$ 0.5	1.3 $\pm$ 0.1

3. SCHEMATIC :



4. MATERIALS :



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%

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



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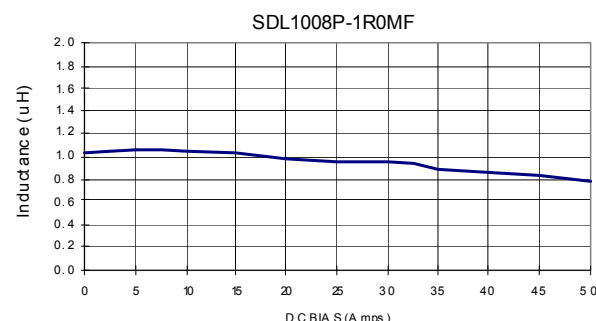
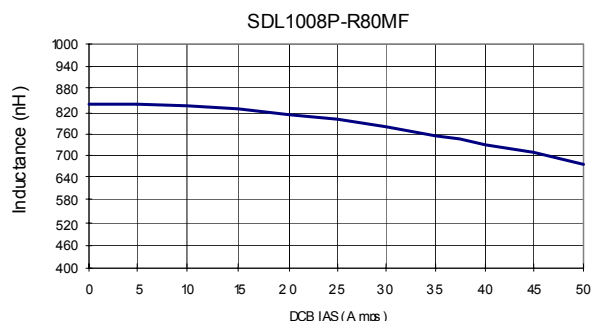
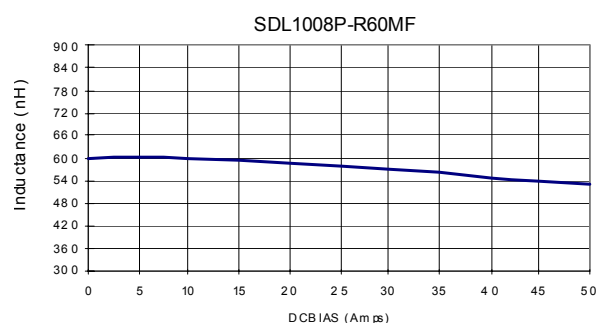
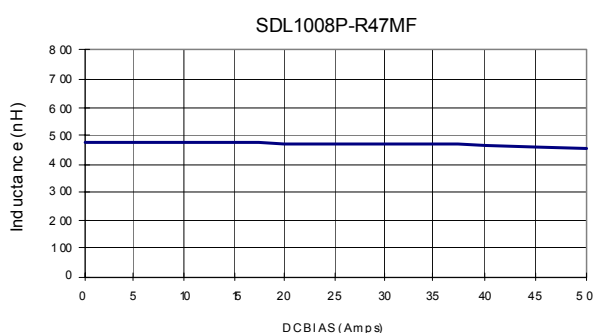
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6. ELECTRICAL CHARACTERISTICS :

Part No.	Inductance L ₀ (μ H)	Test Frequency (Hz)	DCR (m Ω) $\pm 8\%$	I _{rms} (A) Max.	I _{sat} (A) Max.
SDL1008P-R47MF	0.47 $\pm 20\%$	1.0V / 100K	0.87	36	45
SDL1008P-R60MF	0.60 $\pm 20\%$	1.0V / 100K	0.87	36	45
SDL1008P-R80MF	0.80 $\pm 20\%$	1.0V / 100K	1.30	30	45
SDL1008P-1R0MF	1.00 $\pm 20\%$	1.0V / 100K	1.30	30	40

7. INDUCTANCE VS. DC BIAS CURVES :



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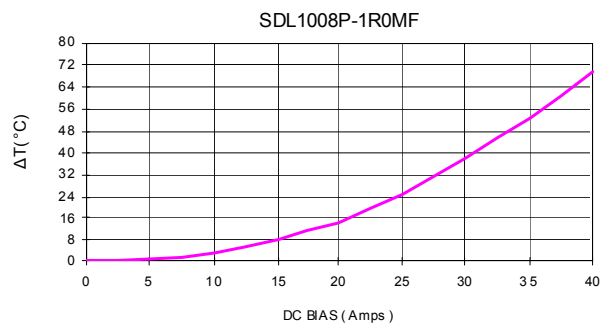
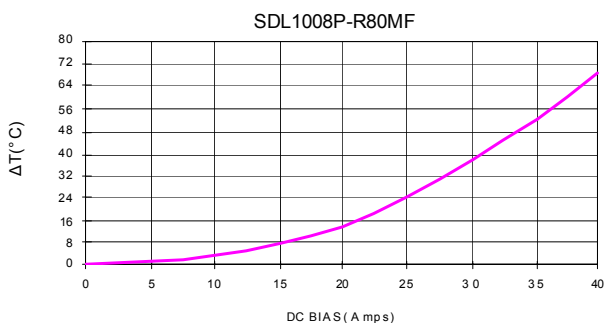
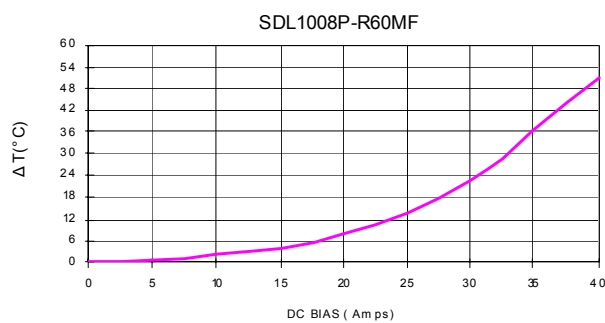
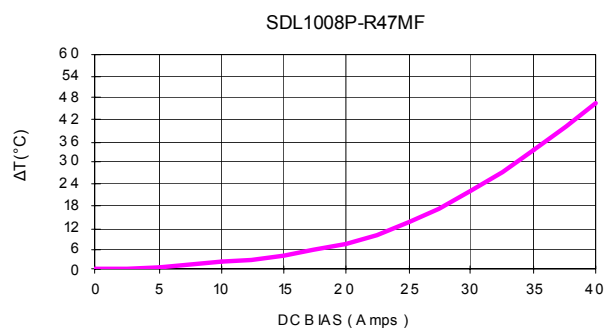
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8. TEMPERATURE RISE VS DC BIAS CURVES :



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