

1. PART NO. EXPRESSION :

SWDY1008-R47MF-NC

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

(a) Series code

(b) Dimension code

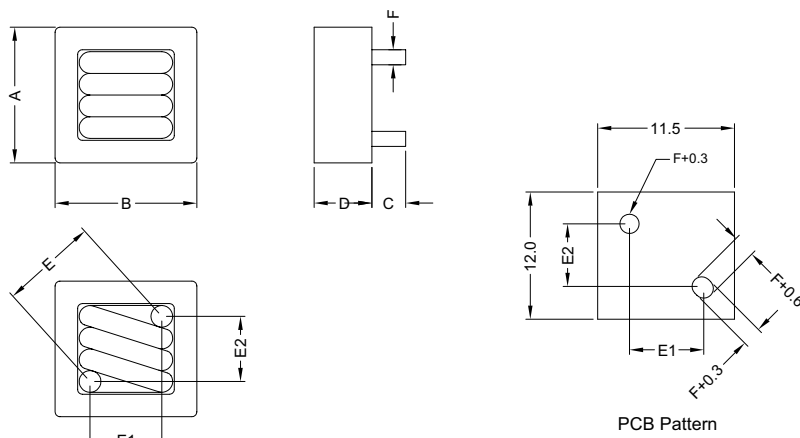
(c) Inductance code : R47 = 0.47uH

(d) Tolerance code : M = ±20%

(e) F : Lead Free

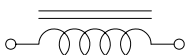
(f) NC : No Cover

2. CONFIGURATION & DIMENSIONS :

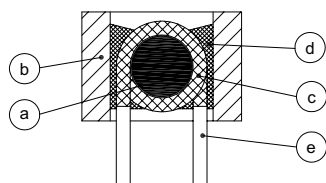


| Part No. | A mm | B mm | C mm | D mm | E mm | E1 mm | E2 mm | F mm |
|-------------------|-----------|-----------|---------|----------|---------|---------|---------|---------|
| SWDY1008-R47MF-NC | 11.0 Max. | 11.5 Max. | 3.5±0.5 | 8.5 Max. | 8.2±0.5 | 6.0±0.5 | 5.6±0.5 | 1.4±0.1 |
| SWDY1008-R60MF-NC | 11.0 Max. | 11.5 Max. | 3.5±0.5 | 8.5 Max. | 8.2±0.5 | 6.0±0.5 | 5.6±0.5 | 1.4±0.1 |
| SWDY1008-R80MF-NC | 11.0 Max. | 11.5 Max. | 3.5±0.5 | 8.5 Max. | 8.6±0.5 | 6.2±0.5 | 5.9±0.5 | 1.3±0.1 |
| SWDY1008-1R0MF-NC | 11.0 Max. | 11.5 Max. | 3.5±0.5 | 8.5 Max. | 8.6±0.5 | 6.2±0.5 | 5.9±0.5 | 1.3±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 L_o to drop approximately 20%



RoHS Compliant

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

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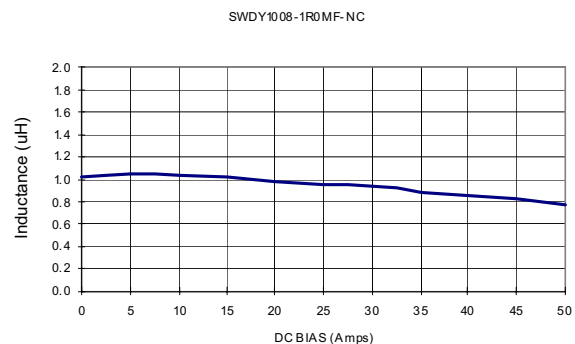
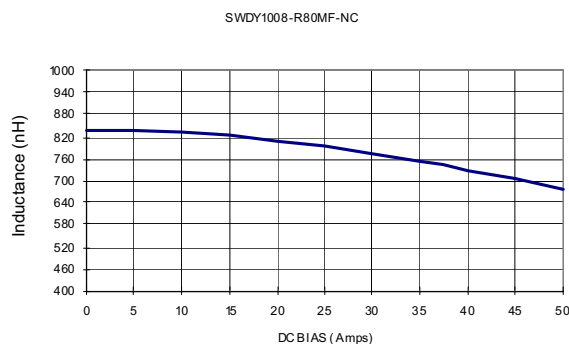
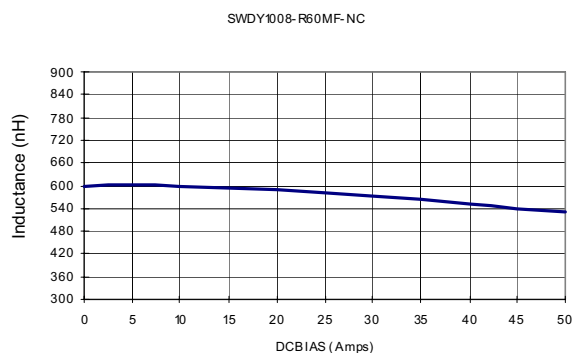
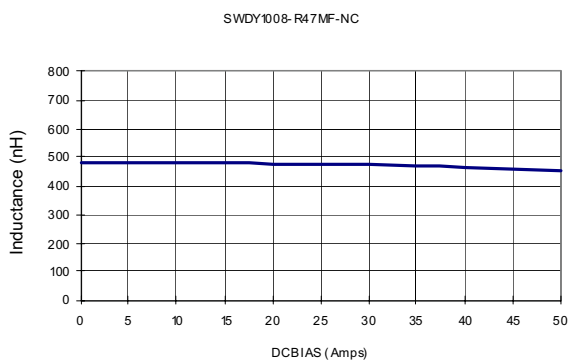
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6. ELECTRICAL CHARACTERISTICS :

| Part No. | Inductance L ₀ (μ H) | Test Frequency (Hz) | DCR (m Ω) $\pm 8\%$ | I _{rms} (A) Max. | I _{sat} (A) Max. |
|-------------------|---|------------------------|-----------------------------------|---------------------------------|---------------------------------|
| SWDY1008-R47MF-NC | 0.47 $\pm 20\%$ | 1.0V / 100K | 0.87 | 36 | 45 |
| SWDY1008-R60MF-NC | 0.60 $\pm 20\%$ | 1.0V / 100K | 0.87 | 36 | 45 |
| SWDY1008-R80MF-NC | 0.80 $\pm 20\%$ | 1.0V / 100K | 1.30 | 30 | 45 |
| SWDY1008-1R0MF-NC | 1.00 $\pm 20\%$ | 1.0V / 100K | 1.30 | 30 | 40 |

7. INDUCTANCE VS. DC BIAS CURVES :



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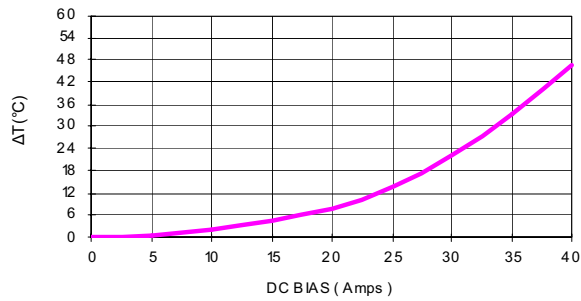
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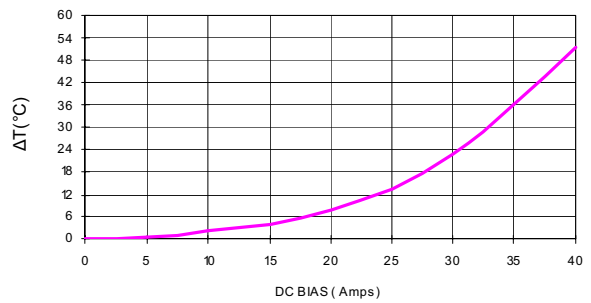
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8. TEMPERATURE RISE VS DC BIAS CURVES : :

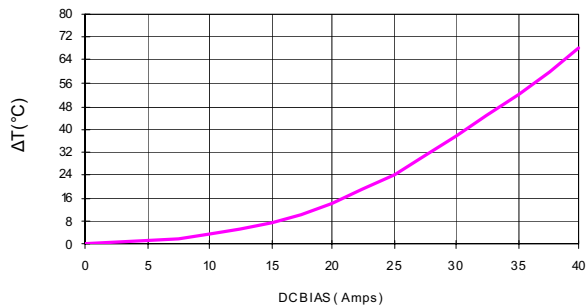
SWDY1008-R47MF-NC



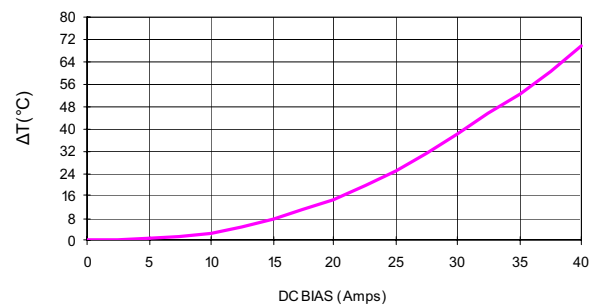
SWDY1008-R60MF-NC



SWDY1008-R80MF-NC



SWDY1008-1R0MF-NC



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