

### 1. PART NO. EXPRESSION :

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

(a) Series code

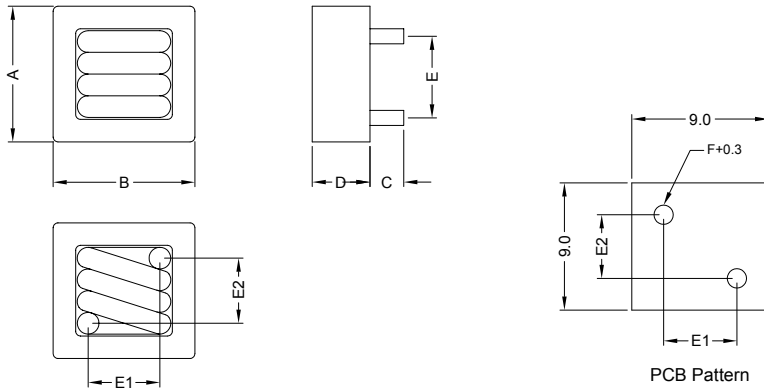
(b) Dimension code

(c) Inductance code : R47 = 0.47uH

(d) Tolerance code : M = ±20%

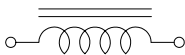
(e) F : Lead Free

### 2. CONFIGURATION & DIMENSIONS :

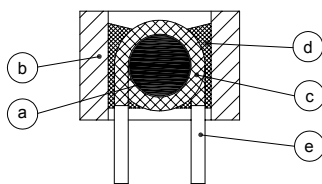


Part No.	A mm	B mm	C mm	D mm	E mm	E1 mm	E2 mm	F mm
SDL0806P-R47MF	8.2 Max.	8.2 Max.	3.5±0.5	6.0 Max.	6.3±0.5	4.5±0.5	4.4±0.5	0.9±0.1
SDL0806P-R60MF	8.2 Max.	8.2 Max.	3.5±0.5	6.0 Max.	6.3±0.5	4.5±0.5	4.4±0.5	0.9±0.1
SDL0806P-R80MF	8.2 Max.	8.2 Max.	3.5±0.5	6.0 Max.	6.2±0.5	4.5±0.5	4.3±0.5	0.8±0.1
SDL0806P-1R0MF	8.2 Max.	8.2 Max.	3.5±0.5	6.0 Max.	6.3±0.5	4.4±0.5	4.5±0.5	0.7±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<sub>o</sub> to drop approximately 20%



**RoHS Compliant**

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

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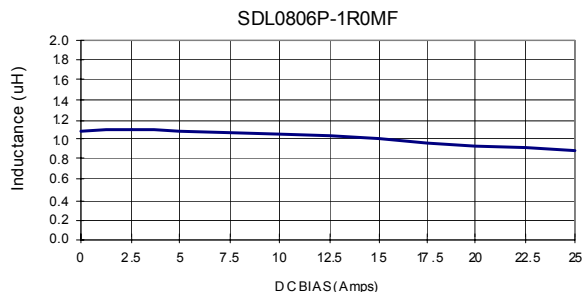
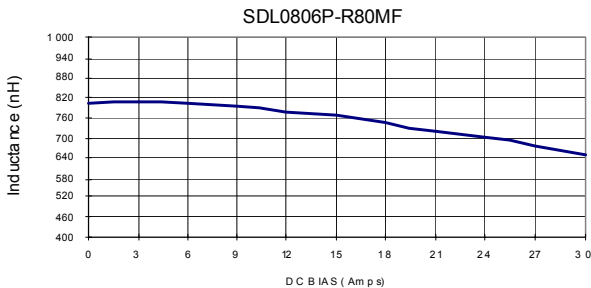
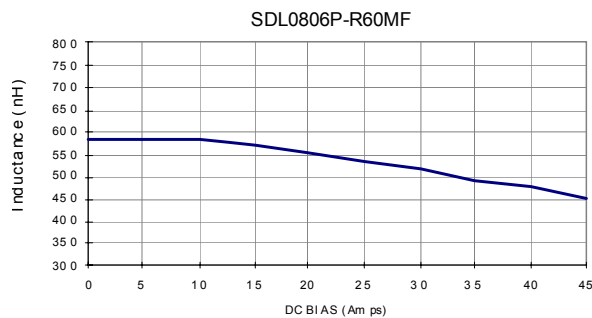
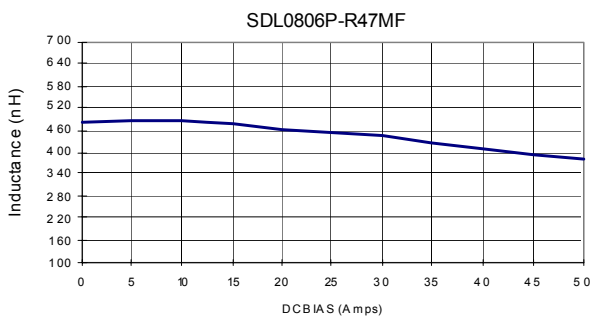


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### 6. ELECTRICAL CHARACTERISTICS :

Part No.	Inductance L <sub>0</sub> ( $\mu$ H)	Test Frequency (Hz)	DCR (m $\Omega$ ) $\pm 8\%$	I <sub>rms</sub> (A) Max.	I <sub>sat</sub> (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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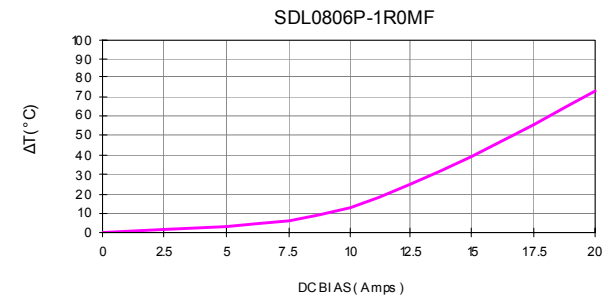
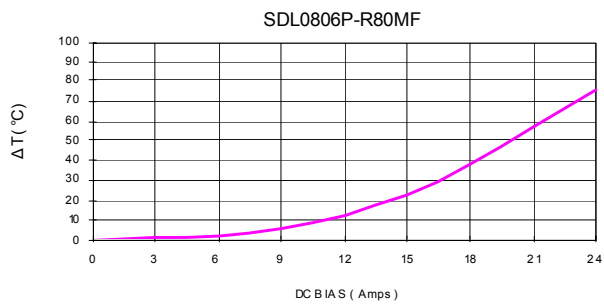
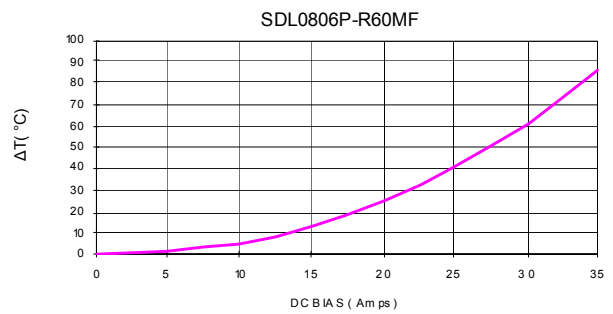
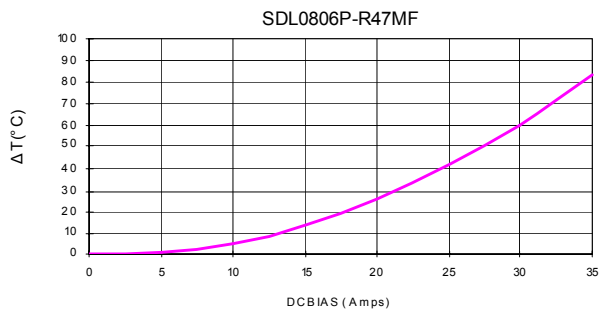
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### 8. TEMPERATURE RISE VS DC BIAS CURVES :



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