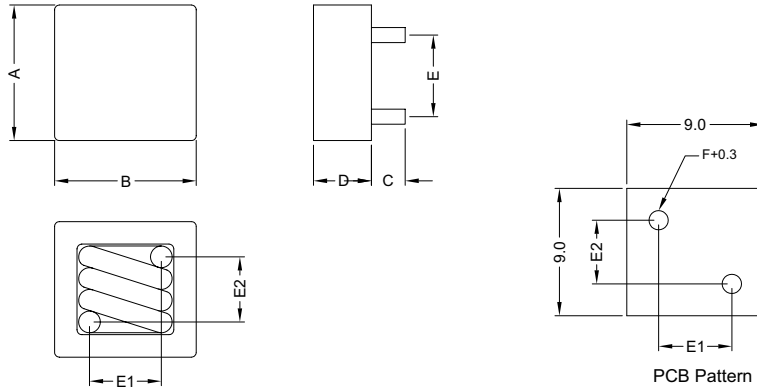


### 1. PART NO. EXPRESSION :

SWDY0806 - R56MF  
 (a) (b) (c) (d)(e)

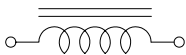
- (a) Series code
- (b) Dimension code
- (c) Inductance code : R56 = 0.56uH
- (d) Tolerance code : M = ±20%
- (e) F : Lead Free

### 2. CONFIGURATION & DIMENSIONS :

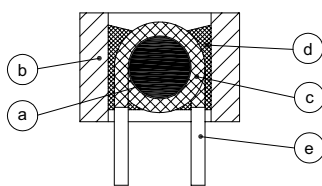


Part No.	A mm	B mm	C mm	D mm	E mm	E1 mm	E2 mm	F mm
SWDY0806-R56MF	8.2 MAX.	8.2 MAX.	3.5±0.5	7.0 MAX.	6.3±0.5	4.5±0.5	4.4±0.5	0.9±0.1
SWDY0806-R82MF	8.2 MAX.	8.2 MAX.	3.5±0.5	6.0 MAX.	6.2±0.5	4.5±0.5	4.3±0.5	0.8±0.1
SWDY0806-1R2MF	8.2 MAX.	8.2 MAX.	3.5±0.5	6.0 MAX.	6.3±0.5	4.4±0.5	4.5±0.5	0.7±0.1

### 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 Lo to drop approximately 20%



**RoHS Compliant**

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

07.04.2008

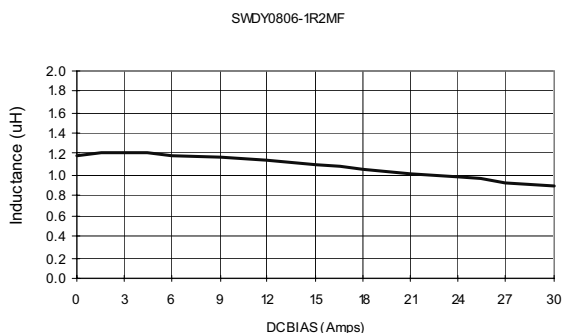
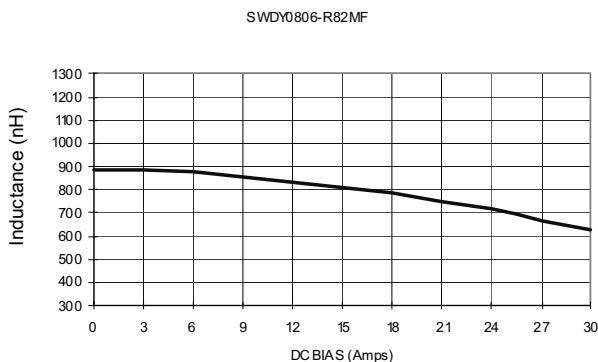
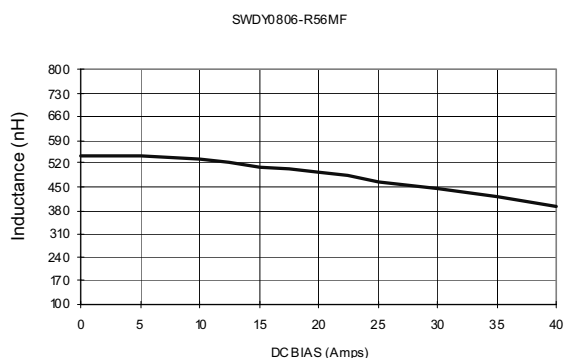


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### 6. ELECTRICAL CHARACTERISTICS :

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.
SWDY0806-R56MF	0.56 $\pm 20\%$	1.0V / 100K	1.90	23	28
SWDY0806-R82MF	0.82 $\pm 20\%$	1.0V / 100K	2.90	18	23
SWDY0806-1R2MF	1.20 $\pm 20\%$	1.0V / 100K	4.30	15	21

### 7. INDUCTANCE VS. DC BIAS CURVES :



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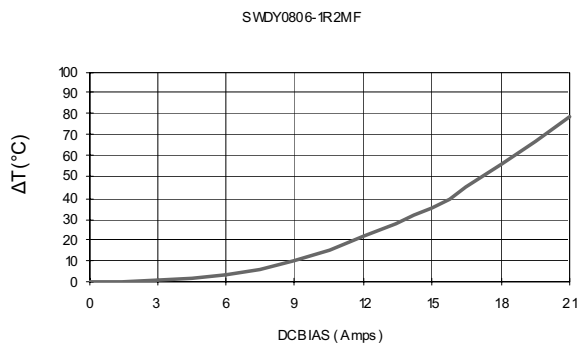
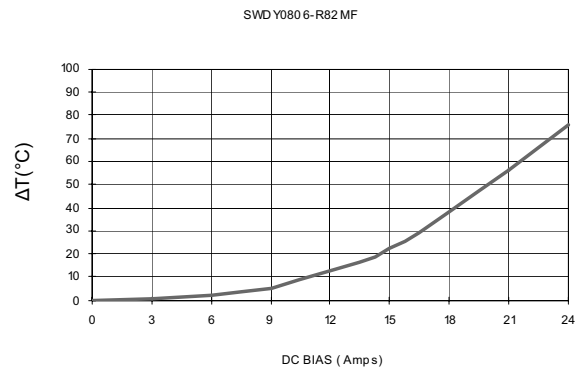
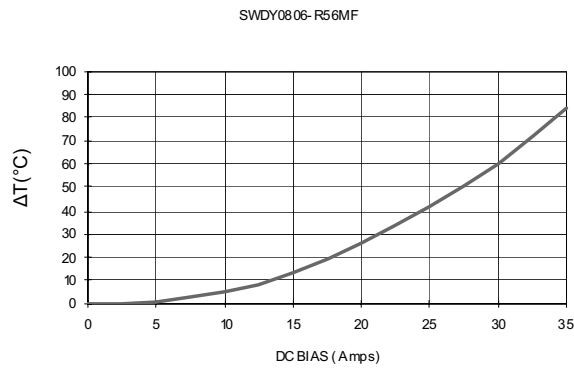
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### 8. TEMPERATURE RISE VS DC BIAS CURVES :



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