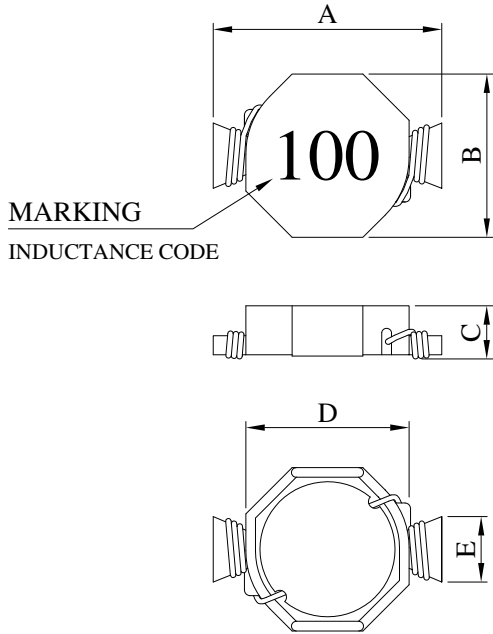


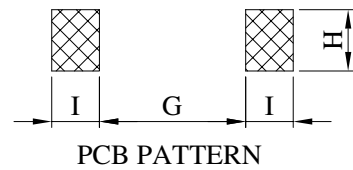
# SPECIFICATION FOR APPROVAL

Product Name	SMD POWER INDUCTORS (LEAD FREE)	Page	1
Tai-Tech Part No.	SWDH1805 SERIES		

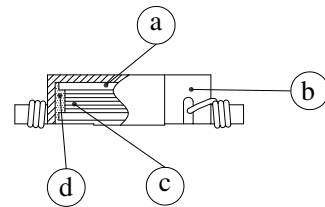
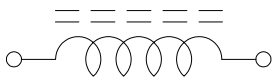
## 1. CONFIGURATION & DIMENSIONS :



- A : 7.80±0.3 m/m
- B : 5.90±0.3 m/m
- C : 2.30 MAX. m/m
- D : 5.70±0.3 m/m
- E : 2.40±0.2 m/m
- G : 4.50 REF. m/m
- H : 3.00 REF. m/m
- I : 1.80 REF. m/m



## 2. SCHEMATIC DIAGRAM :



## 3. MATERIALS :

NO.	DESCRIPTION	SPECIFICATION	REMARK
a.	CORE	DR FERRITE CORE	
b.	BASE	PHENOLIC	
c.	WIRE	ENAMELLED COPPER WIRE	
d.	ADHESIVE	EPOXY	



**RoHS Compliant**

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

25.10.2006



**TAI-TECH ADVANCED ELECTRONICS (S) PTE LTD**

# SPECIFICATION FOR APPROVAL

Product Name	SMD POWER INDUCTORS (LEAD FREE)	Page	2
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## 4. GENERAL SPECIFICATION :

- a. TEMP. RISE : 40°C TYP. AT IDC
- b. RATED CURRENT :  $\Delta L / L0A=10\%$  MAX. AT IDC
- c. OPERATING TEMP. : -25°C ----- +85°C
- d. RESISTANCE TO SOLDER HEAT : 260°C. 10 SECS.

## 5. ELECTRICAL CHARACTERISTICS :

PART NO.	INDUCTANCE ( $\mu$ H)	TEST FREQ. (Hz)	RDC (mOHM) MAX	SRF (MHz) TYP.	IDC (A)
SWDH1805-1R0MF	1.0 $\pm$ 20%	0.1V / 100K	35	180	3.20
SWDH1805-1R5MF	1.5 $\pm$ 20%	0.1V / 100K	45	140	2.90
SWDH1805-2R2MF	2.2 $\pm$ 20%	0.1V / 100K	65	110	2.10
SWDH1805-3R3MF	3.3 $\pm$ 20%	0.1V / 100K	95	90	1.80
SWDH1805-4R7MF	4.7 $\pm$ 20%	0.1V / 100K	130	80	1.50
SWDH1805-6R8MF	6.8 $\pm$ 20%	0.1V / 100K	190	60	1.10
SWDH1805-100MF	10.0 $\pm$ 20%	0.1V / 100K	260	50	1.00



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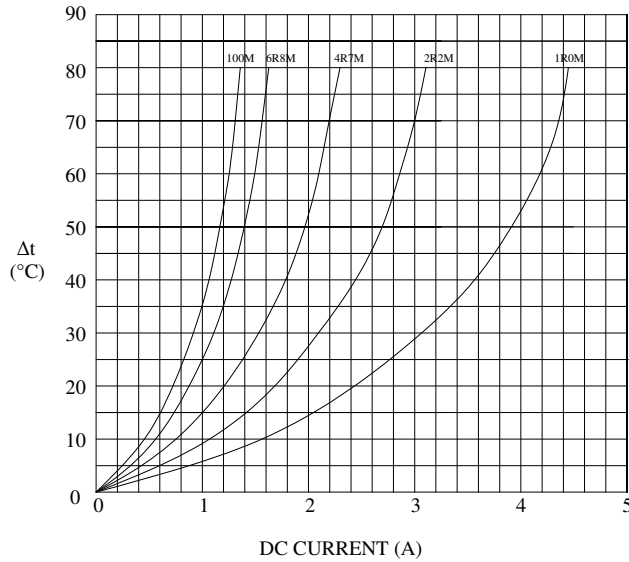
TAI-TECH ADVANCED ELECTRONICS (S) PTE LTD

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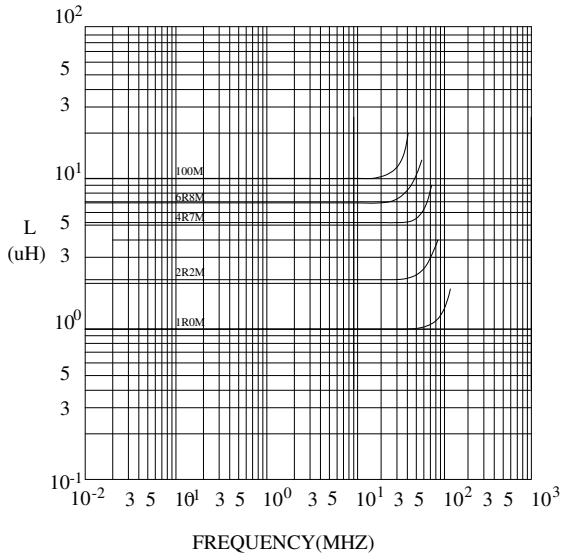
Product Name	SMD POWER INDUCTORS (LEAD FREE)	Page	3
Tai-Tech Part No.	SWDH1805 SERIES		

## 6. CHARACTERISTICS CURVES :

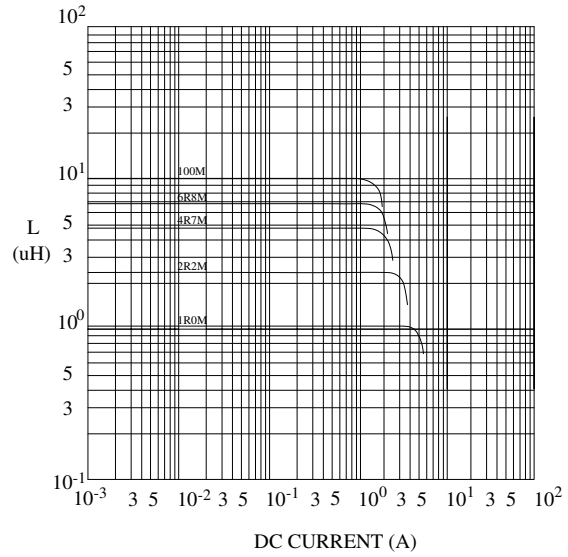
@ TEMP. RISE VS. DC SUPERPOSITION RESPONSE CURVE



@ INDUCTANCE VS. FREQUENCY RESPONSE CURVE



@ INDUCTANCE VS. DC SUPERPOSITION RESPONSE CURVE



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