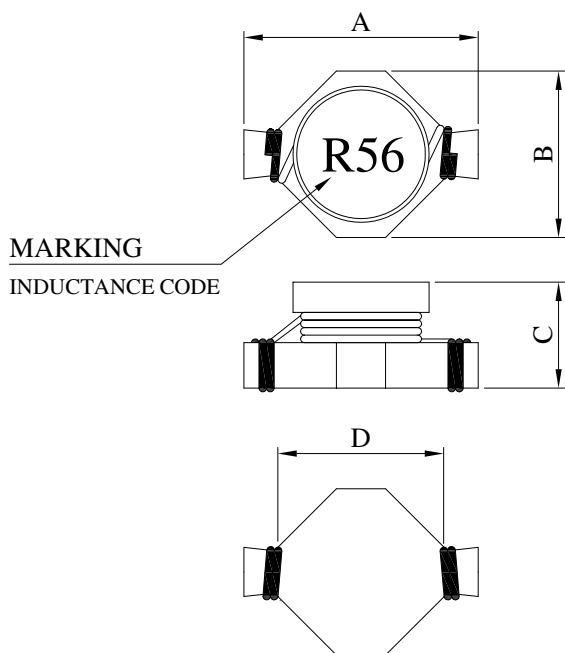


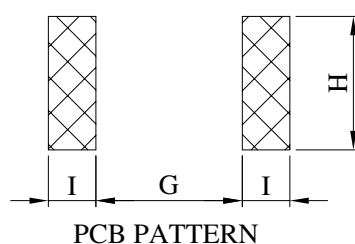
# SPECIFICATION FOR APPROVAL

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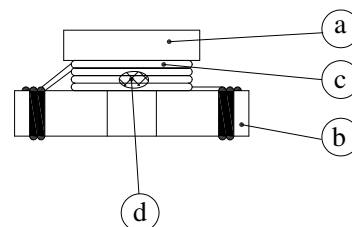
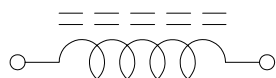
## 1. CONFIGURATION & DIMENSIONS :



A :	8.89 MAX.	m/m
B :	6.10 MAX.	m/m
C :	5.00 MAX.	m/m
D :	5.84 TYP.	m/m
G :	5.08 REF.	m/m
H :	4.06 REF.	m/m
I :	1.91 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.*

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## 4. GENERAL SPECIFICATION :

- a. TEMP. RISE : 40°C TYP. AT  $I_{rms}$
- b. RATED CURRENT :  $\Delta L / L_0 A = 30\%$  TYP. AT  $I_{sat}$
- 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)	SRF (MHZ) TYP.	RDC (mOHM) MAX	$I_{sat}$ (A)	$I_{rms}$ (A)
SWDH1813-R56MF	0.56 $\pm$ 20%	0.25V / 100K	200	10.0	7.70	6.00
SWDH1813-1R2MF	1.20 $\pm$ 20%	0.25V / 100K	140	17.0	5.30	4.40
SWDH1813-2R2MF	2.20 $\pm$ 20%	0.25V / 100K	100	35.0	3.50	3.10
SWDH1813-4R7MF	4.70 $\pm$ 20%	0.25V / 100K	50	54.0	2.60	2.20
SWDH1813-100MF	10.00 $\pm$ 20%	0.25V / 100K	40	111.0	1.90	1.50
SWDH1813-150MF	15.00 $\pm$ 20%	0.25V / 100K	30	170.0	1.50	1.20
SWDH1813-220MF	22.00 $\pm$ 20%	0.25V / 100K	25	250.0	1.20	1.00
SWDH1813-330MF	33.00 $\pm$ 20%	0.25V / 100K	20	350.0	0.99	0.82
SWDH1813-470MF	47.00 $\pm$ 20%	0.25V / 100K	15	470.0	0.87	0.72



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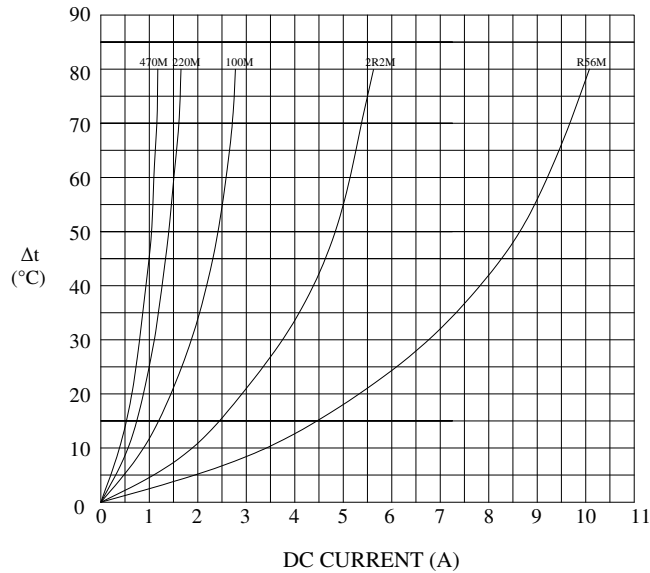
TAI-TECH ADVANCED ELECTRONICS (S) PTE LTD

# SPECIFICATION FOR APPROVAL

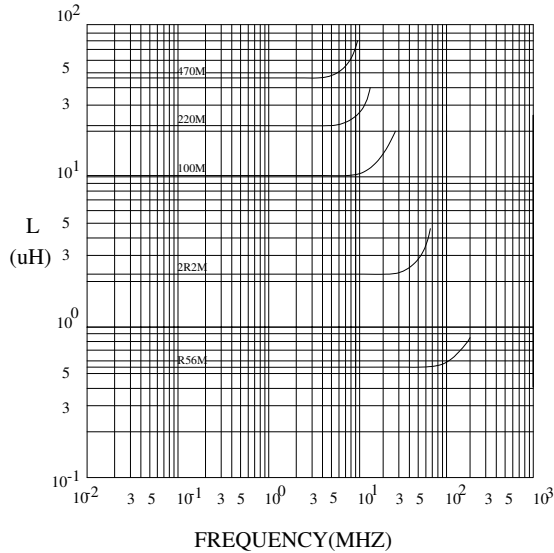
Product Name	SMD POWER INDUCTORS (LEAD FREE)	Page	3
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## 6. CHARACTERISTICS CURVES :

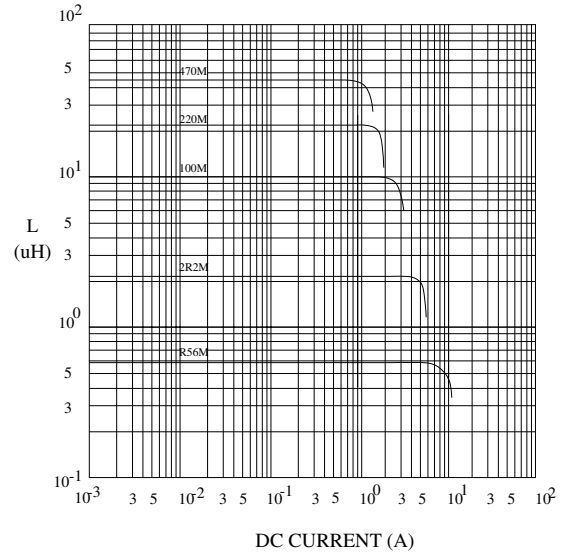
@ TEMP. RISE VS. DC SUPERPOSITION RESPONSE CURVE



@ INDUCTANCE VS. FREQUENCY RESPONSE CURVE



@ INDUCTANCE VS. DC SUPERPOSITION RESPONSE CURVE



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