

1. PART NO. EXPRESSION :

$\frac{S}{(a)} \frac{M}{(b)} \frac{C}{(c)} \frac{1409}{(d)} \frac{R56}{(e)} \frac{Y}{(f)} \frac{Z}{(g)} \frac{F}{(h)}$

(a) Series code

(b) Dimension code

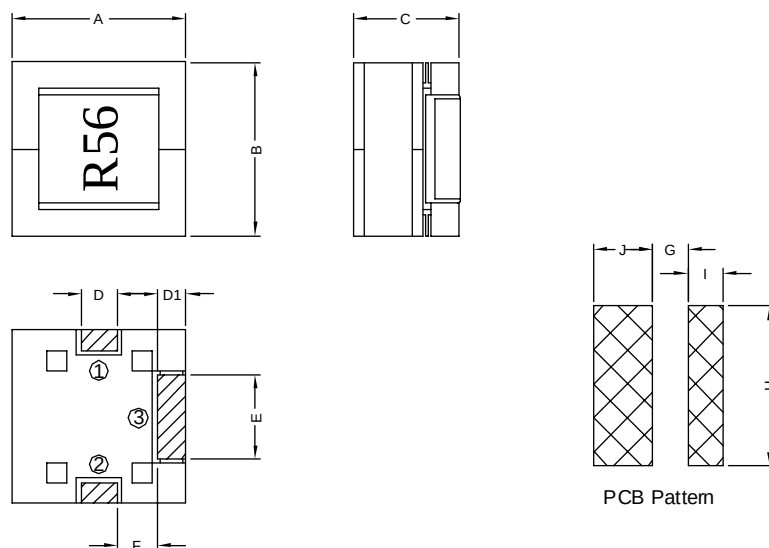
(c) Inductance code : R56 = 0.56uH

(d) Tolerance code : M = $\pm 20\%$, Y = $\pm 30\%$

(e) Z : Standard part

(f) F : RoHS Compliant

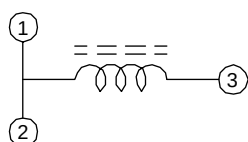
2. CONFIGURATION & DIMENSIONS :



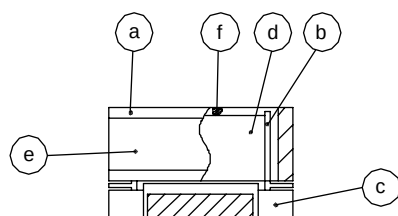
Unit:m/m

A	B	C	D	D1	E	F	G	H	I	J
14.70 $\pm$ 0.30	15.00 $\pm$ 0.30	9.50 $\pm$ 0.30	4.00 $\pm$ 0.30	2.00 $\pm$ 0.30	8.00 $\pm$ 0.30	4.00 $\pm$ 1.00	3.00 Ref.	13.50 Ref.	3.00 Ref.	5.00 Ref.

3. SCHEMATIC :



4. MATERIALS :



(a) Core

(b) Bobbin

(c) Base

(d) Wire

(e) Tape

(f) Adhesive

(g) Varnish



RoHS Compliant

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

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PG. 1

5. GENERAL SPECIFICATION :

- a) Temp. rise : 40° C Max. at rated current
- b) Rated Current : Base on temp. rise & $\Delta L/L0A = 25\%$ Max.
- c) Operating temp. : -40° C to +85° C
- d) Storage condition (component in its packaging)
 - i) Temperature : -10 to 40° C
 - ii) Humidity : 60%
- e) Resistance to solder heat : 260° C.10 secs

6. ELECTRICAL CHARACTERISTICS :

Part No.	Inductance (μ H)	Test Frequency (Hz)	RDC (m Ω) Max.	IDC (A)
SMC1409R56YZF	0.56 $\pm$ 30%	1V/100K	1.00	30
SMC14091R0MZP	1.00 $\pm$ 20%	1V/100K	1.35	22
SMC14091R6MZP	1.60 $\pm$ 20%	1V/100K	1.70	18
SMC14092R2MZP	2.20 $\pm$ 20%	1V/100K	2.35	15



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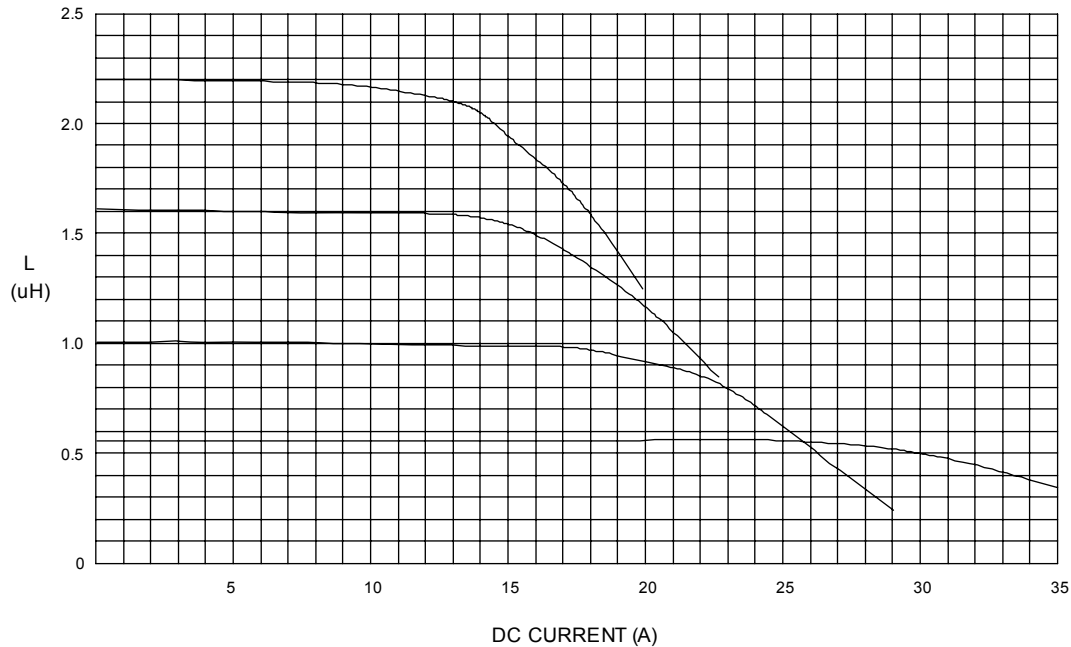


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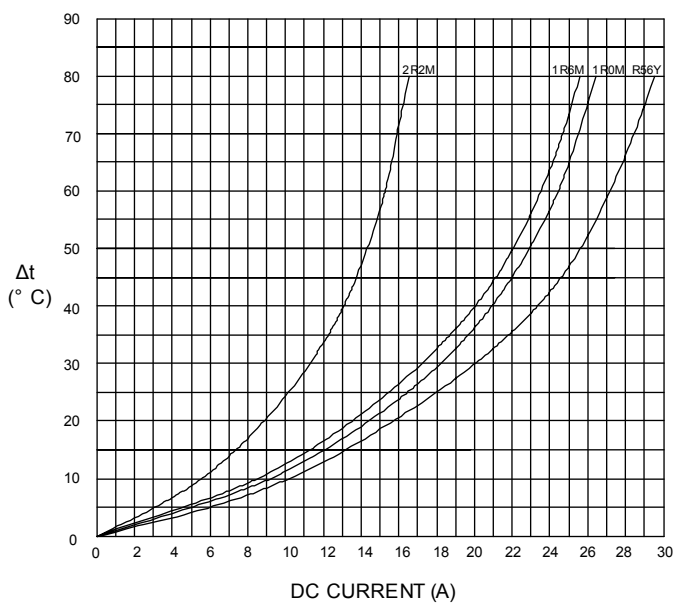
PG. 2

7. CHARACTERISTICS CURVES :

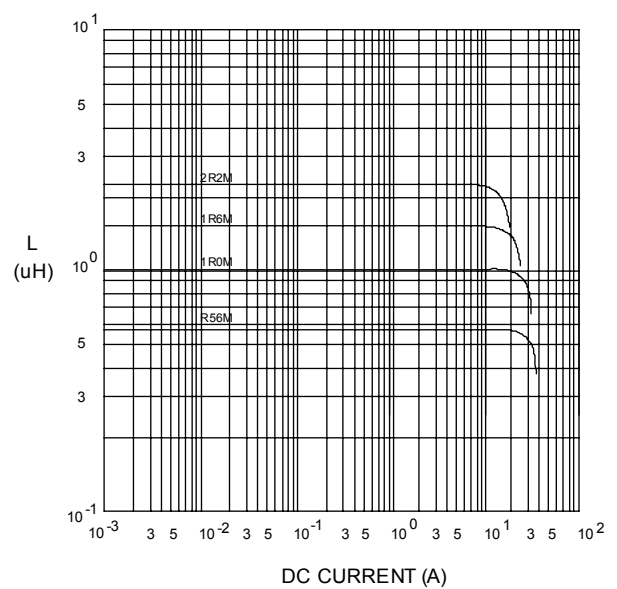
@ INDUCTANCE VS. DC SUPERPOSITION CHARACTERISTICS



@ TEMP. RISE VS. DC SUPERPOSITION RESPONSE CURVE



@ INDUCTANCE VS. DC SUPERPOSITION RESPONSE CURVE



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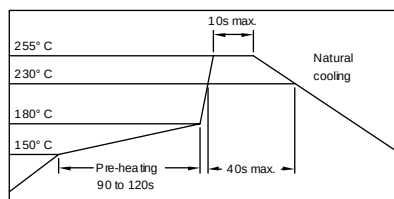
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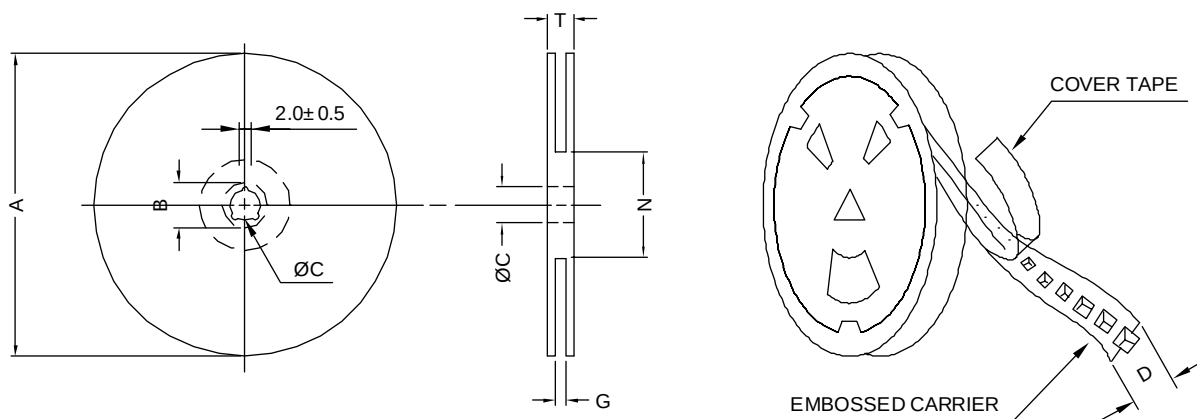
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RECOMMENDED SOLDERING CONDITIONS REFLOW SOLDERINGS

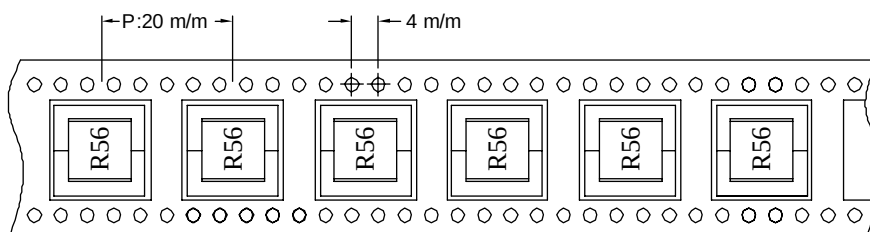


8. PACKAGING INFORMATION :

(1) CONFIGURATION



* CARRIER TAPE WIDTH : D



(2) DIMENSIONS

Unit:m/m

STYLE	A	B	C	D	G	N	T
13-32	330	21±0.8	13±0.5	32	34 ⁺⁰	100 ⁻⁰	38.4

(3) QTY & G.W. PER PACKAGE

SERIES	INNER : REEL			OUTER : CARTON		
	QTY (PCS)	G.W. (gw)	STYLE	QTY (PCS)	G.W. (Kg)	SIZE (cm)
SMC1409	350	1750	13-32	1400	10.5	40 x 40 x 26



RoHS Compliant

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