

1. PART NO. EXPRESSION :

S D C 1 0 0 3 1 0 0 Y Z F
(a) (b) (c) (d)(e)(f)

(a) Series code

(b) Dimension code

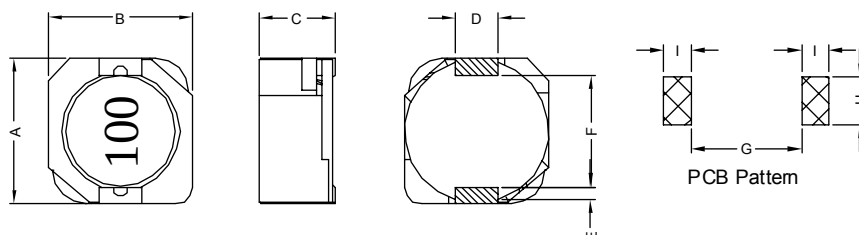
(c) Inductance code : 100 = 10.0uH

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

(e) Z : Standard part

(f) F : RoHS Compliant

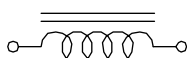
2. CONFIGURATION & DIMENSIONS :



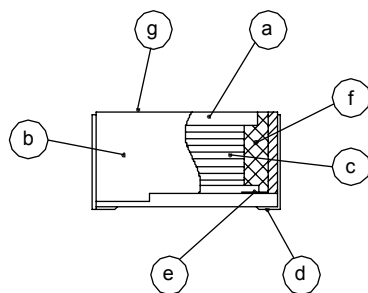
Unit:m/m

A	B	C	D	E	F	G	H	I
10.3 $\pm$ 0.3	10.0 $\pm$ 0.3	3.8 $\pm$ 0.2	3.0 $\pm$ 0.1	1.5 $\pm$ 0.2	7.3 $\pm$ 0.3	7.3 Ref.	3.2 Ref.	1.8 Ref.

3. SCHEMATIC :



4. MATERIALS :



(a) Core

(b) Core

(c) Wire

(d) Terminal

(e) Adhesive

(f) Adhesive

(g) Ink

5. GENERAL SPECIFICATION :

a) $\Delta L/L0A$: 35% Max. at Isat

b) Temp. Rise : 40° C Typ. at Im

c) Operating temp. : -40° C to +125° 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



RoHS Compliant

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6. ELECTRICAL CHARACTERISTICS :

Part No.	Inductance (μ H)	Test Freq. (Hz)	RDC (m Ω) Max.	I _{rms} (A) Max.	I _{sat} (A) Max.
SDC10031R5YZF	1.50 $\pm$ 30%	1V/100K	8.1	6.80	10.00
SDC10032R5YZF	2.50 $\pm$ 30%	1V/100K	10.0	6.10	7.50
SDC10033R8YZF	3.80 $\pm$ 30%	1V/100K	13.0	5.20	6.00
SDC10035R2YZF	5.20 $\pm$ 30%	1V/100K	22.0	4.60	5.50
SDC10037R0YZF	7.00 $\pm$ 30%	1V/100K	27.0	4.30	4.80
SDC1003100YZF	10.00 $\pm$ 30%	1V/100K	35.0	3.80	4.40
SDC1003150YZF	15.00 $\pm$ 30%	1V/100K	50.0	3.20	3.60
SDC1003220YZF	22.00 $\pm$ 30%	1V/100K	73.0	2.50	2.90
SDC1003330YZF	33.00 $\pm$ 30%	1V/100K	93.0	2.10	2.30
SDC1003470YZF	47.00 $\pm$ 30%	1V/100K	128.0	1.80	2.10
SDC1003680YZF	68.00 $\pm$ 30%	1V/100K	213.0	1.50	1.50
SDC1003820YZF	82.00 $\pm$ 30%	1V/100K	283.0	1.24	1.45
SDC1003101YZF	100.00 $\pm$ 30%	1V/100K	304.0	1.20	1.35
SDC1003151YZF	150.00 $\pm$ 30%	1V/100K	506.0	1.00	1.15
SDC1003221YZF	220.00 $\pm$ 30%	1V/100K	756.0	0.80	0.92
SDC1003331YZF	330.00 $\pm$ 30%	1V/100K	1090.0	0.70	0.70



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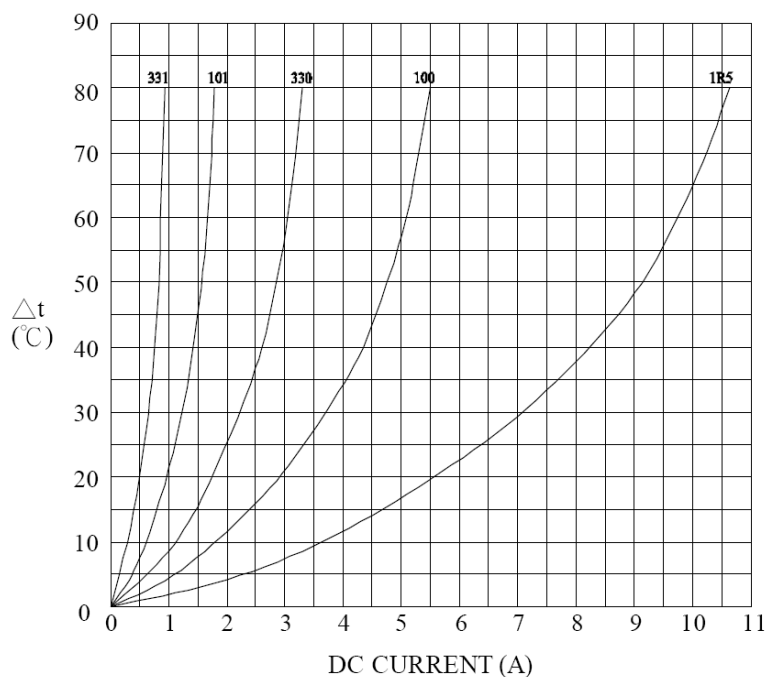
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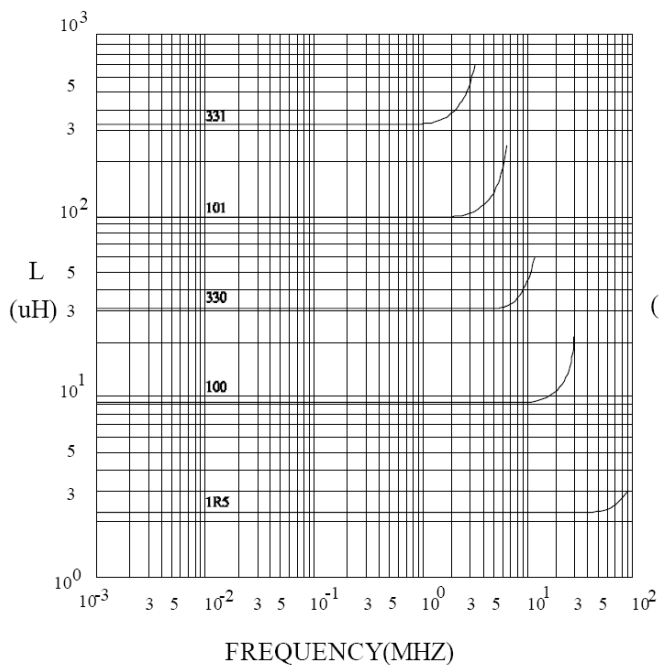
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7. CHARACTERISTICS CURVES :

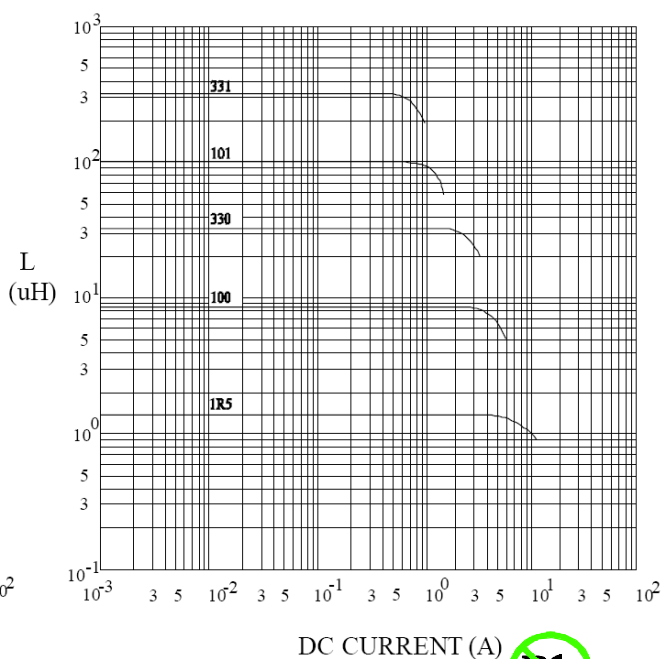
@ TEMP. RISE VS. DC SUPERPOSITION RESPONSE CURVE



@ INDUCTANCE VS. FREQUENCY RESPONSE CURVE



@ INDUCTANCE VS. DC SUPERPOSITION RESPONSE CURVE



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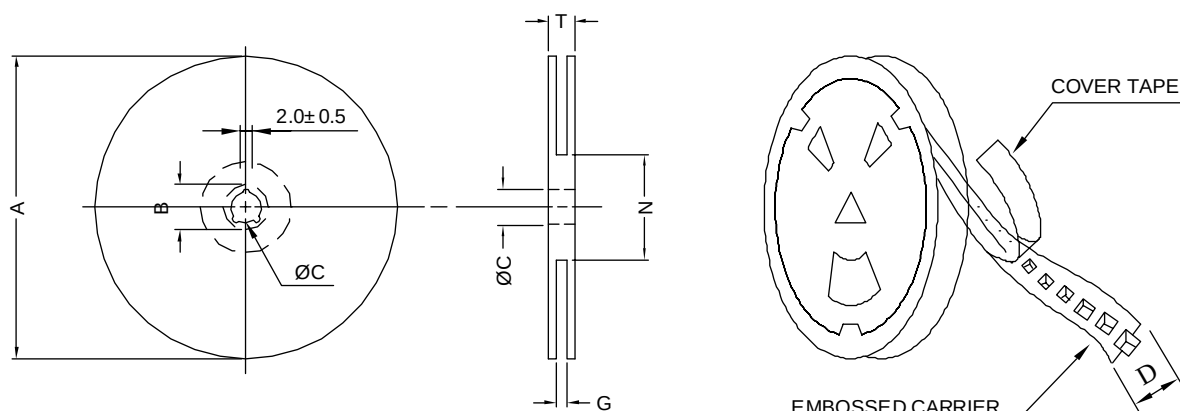
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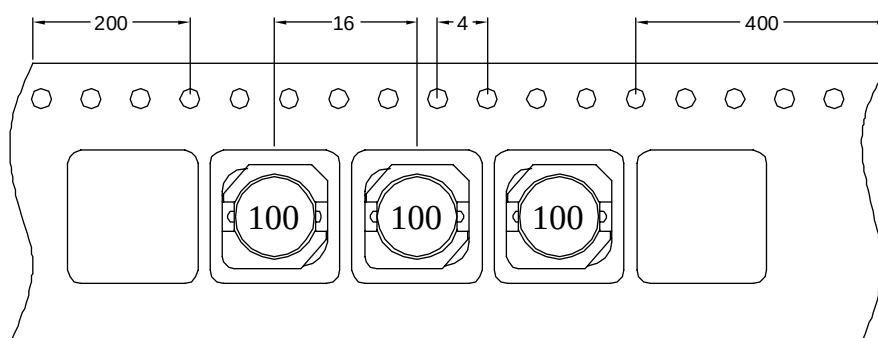
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8. PACKAGING INFORMATION :

(1) CONFIGURATION



* CARRIER TAPE WIDTH : D



(2) DIMENSIONS

Unit:m/m

STYLE	A	B	C	D	G	N	T
13-24	330	21±0.8	13	24	26 ⁺⁰	50 ⁻⁰	30.4

(3) Q'TY & G.W. PER PACKAGE

SERIES	INNER : REEL			OUTER : CARTON		
	Q'TY (PCS)	G.W. (gw)	STYLE	Q'TY (PCS)	G.W. (Kg)	SIZE (cm)
SDC1003	600	900	13-24	2400	7.1	38 x 36.5 x 21



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