

1. Part No. Expression:

S D B 1 2 0 7 1 0 1 M Y F

(a) (b) (c) (d)(e)(f)

(a) Series Code

(b) Dimension Code

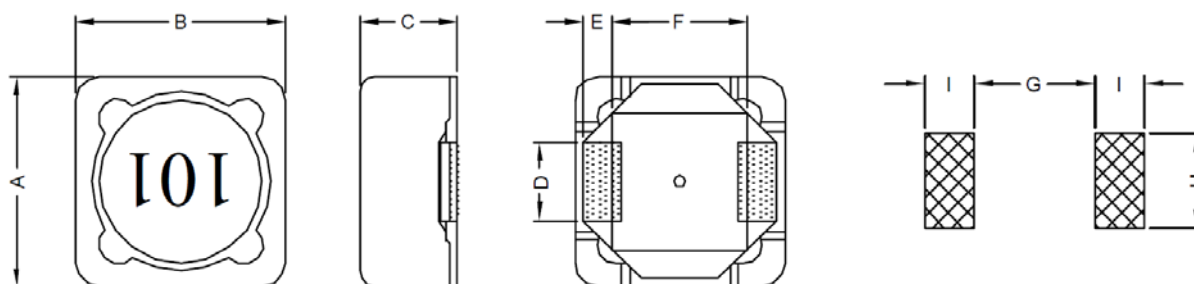
(c) Inductance Code

(d) Tolerance Code

(e) Standard Code

(f) RoHS Compliant

2. Configuration & Dimensions :



Recommended PCB Pattern

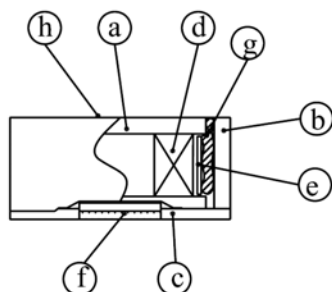
Unit: mm

A	B	C	D	E	F	G	H	I
12.50±0.30	12.50±0.30	8.00 Max.	5.00±0.20	2.20±0.20	7.60±0.20	7.00 Ref.	5.40 Ref.	2.80 Ref.

3. Schematic



4. Material List



a) DR Core

b) RI Core

c) Base

d) Wire

e) Tape

f) Terminal

g) Adhesive

h) Ink

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

5. General Specification

- a) Temp. rise: 40°C Typ. at Irms
- b) $\Delta L/L_0=10\%$ Typ.at Isat
- c) Operating Temperature: -40°C to 85°C
- d) Storage Temperature: -40°C to 125°C
- e) Resistance to solder heat: 260°C, 10sec

6. Electrical Characteristics

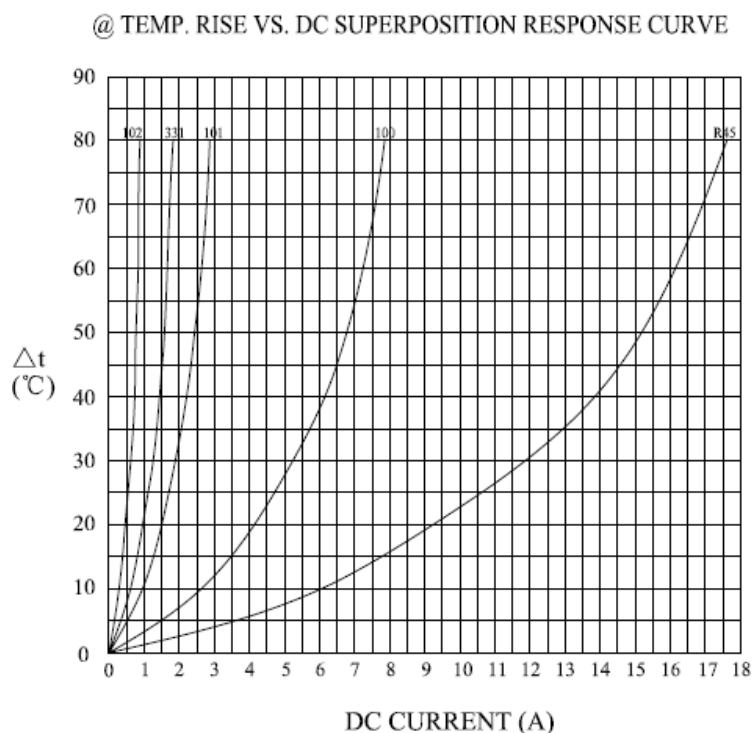
Part Number	Inductance (uH) $\pm 20\%$	Test Frequency (Hz)	RDC (m Ω) Max.	Isat (A)	Irms (A)
SDB1207R45MYF	0.45	0.25V/100K	3.2	30.00	14.00
SDB1207R82MYF	0.82	0.25V/100K	5.0	22.00	12.00
SDB12071R5MYF	1.50	0.25V/100K	5.9	18.00	11.00
SDB12072R2MYF	2.20	0.25V/100K	7.0	15.00	10.00
SDB12073R3MYF	3.30	0.25V/100K	7.9	11.00	9.00
SDB12074R7MYF	4.70	0.25V/100K	9.5	10.00	8.50
SDB12075R6MYF	5.60	0.25V/100K	11.5	9.00	8.00
SDB12076R8MYF	6.80	0.25V/100K	12.5	8.00	7.50
SDB12078R2MYF	8.20	0.25V/100K	19.5	7.30	6.50
SDB1207100MYF	10.0	0.25V/10K	20.1	6.80	6.00
SDB1207120MYF	12.0	0.25V/10K	23.2	6.30	5.60
SDB1207150MYF	15.0	0.25V/10K	31.9	5.80	5.00
SDB1207180MYF	18.0	0.25V/10K	35.6	5.00	4.60
SDB1207220MYF	22.0	0.25V/10K	41.0	4.50	4.30
SDB1207270MYF	27.0	0.25V/10K	52.9	4.00	4.00
SDB1207330MYF	33.0	0.25V/10K	59.4	3.70	3.50
SDB1207390MYF	39.0	0.25V/10K	64.8	3.40	3.30
SDB1207470MYF	47.0	0.25V/10K	90.0	3.20	3.00
SDB1207560MYF	56.0	0.25V/10K	115	3.00	2.65
SDB1207680MYF	68.0	0.25V/10K	134	2.70	2.35
SDB1207820MYF	82.0	0.25V/10K	146	2.40	2.10
SDB1207101MYF	100	0.25V/10K	156	2.20	2.00
SDB1207121MYF	120	0.25V/10K	221	2.00	1.90
SDB1207151MYF	150	0.25V/10K	246	1.80	1.70

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Part Number	Inductance (μH) $\pm 20\%$	Test Frequency (Hz)	RDC (m Ω) Max.	Isat (A)	Irms (A)
SDB1207181MYF	180	0.25V/10K	324	1.60	1.50
SDB1207221MYF	220	0.25V/10K	367	1.50	1.40
SDB1207271MYF	270	0.25V/10K	425	1.30	1.30
SDB1207331MYF	330	0.25V/10K	560	1.20	1.10
SDB1207391MYF	390	0.25V/10K	761	1.10	1.00
SDB1207471MYF	470	0.25V/10K	855	1.00	0.95
SDB1207561MYF	560	0.25V/10K	936	0.95	0.90
SDB1207681MYF	680	0.25V/10K	1296	0.85	0.80
SDB1207821MYF	820	0.25V/10K	1404	0.80	0.70
SDB1207102MYF	1000	0.25V/10K	1620	0.70	0.60

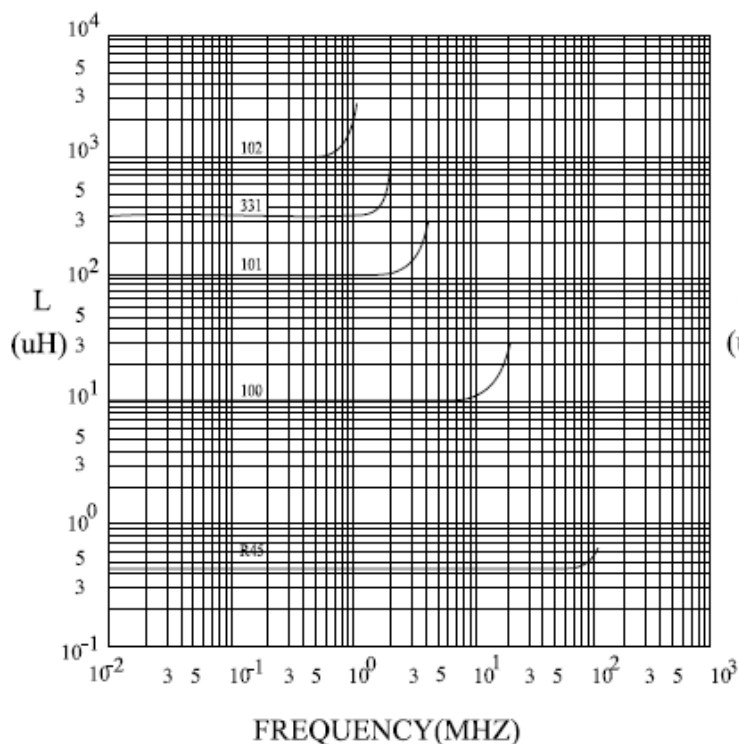
7. Characteristic Curve



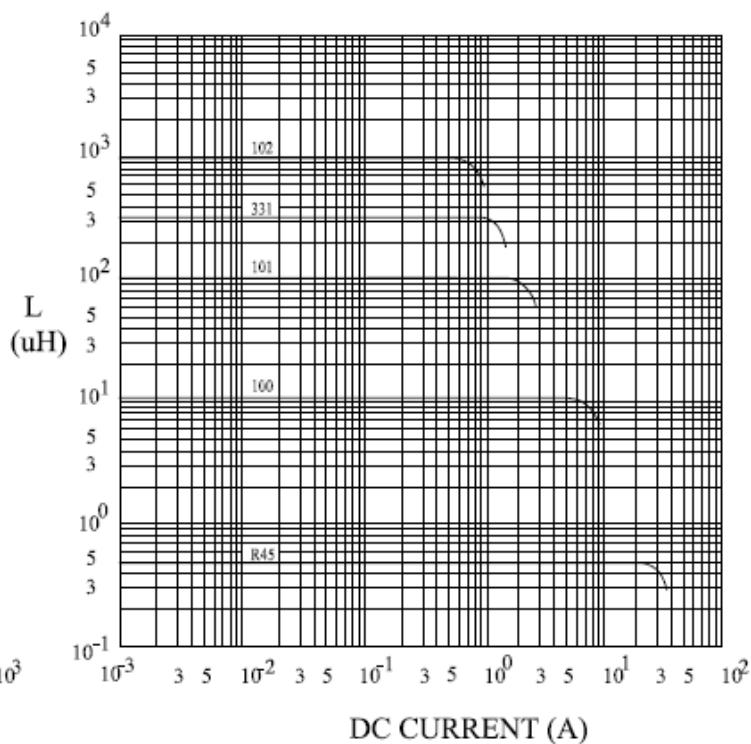
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@ INDUCTANCE VS. FREQUENCY RESPONSE CURVE

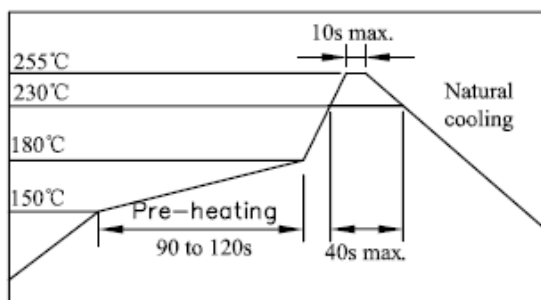


@ INDUCTANCE VS. DC SUPERPOSITION RESPONSE CURVE



8. Soldering

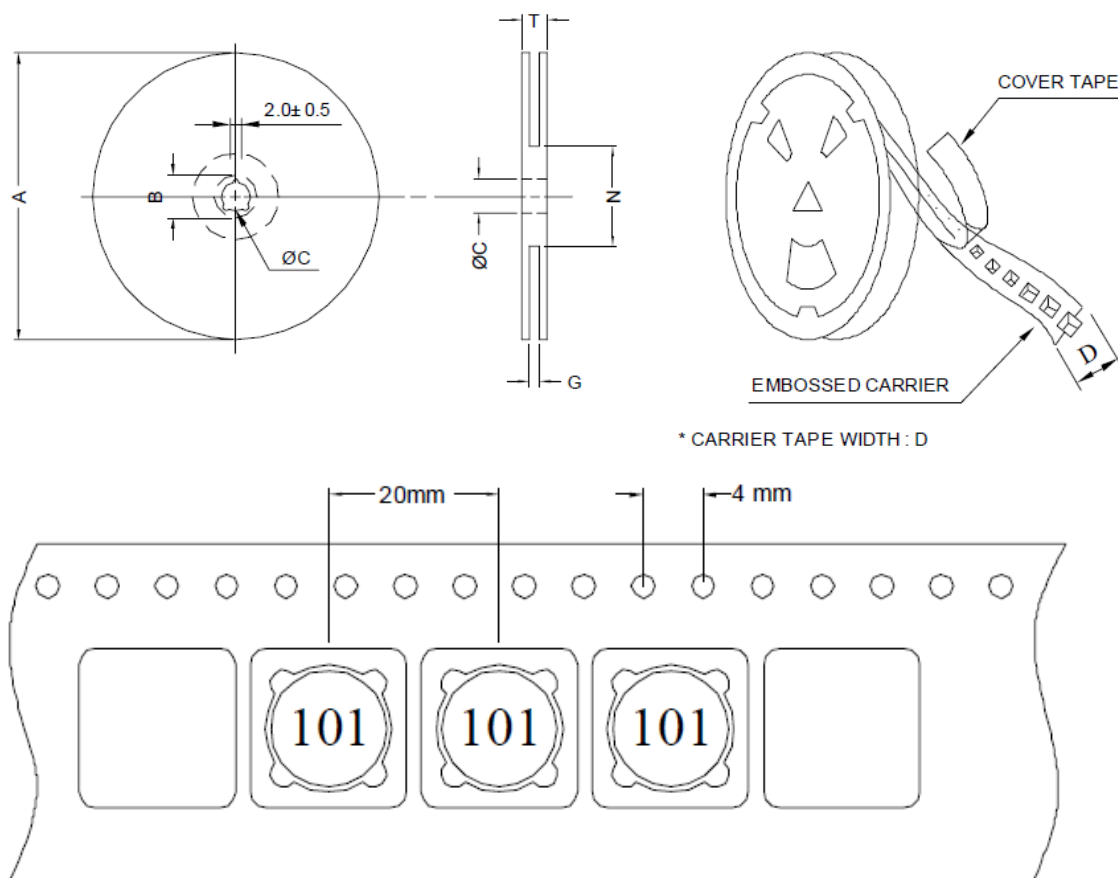
RECOMMENDED SOLDERING CONDITIONS REFLOW SOLDERINGS



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9. Packaging Information

9-1 Tape & Reel Dimension



Style	A (mm)	B (mm)	C (mm)	D (mm)	G (mm)	N (mm)	T (mm)
13-24	330	21±0.8	13±0.5	24	26 Max.	50 Min.	30.4

9-2. Quantity & G.W. Per Package

Series	Inner: Reel		Outer: Carton		
	Qty (pcs)	G.W (gw)	Qty (pcs)	G.W (kg)	Size (cm)
SDB1207	400	2,100	1,600	11.9	40x40x24

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