

1. Part No. Expression:

**SDB12071R2YZF**

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

(a) Series Code

(b) Dimension Code

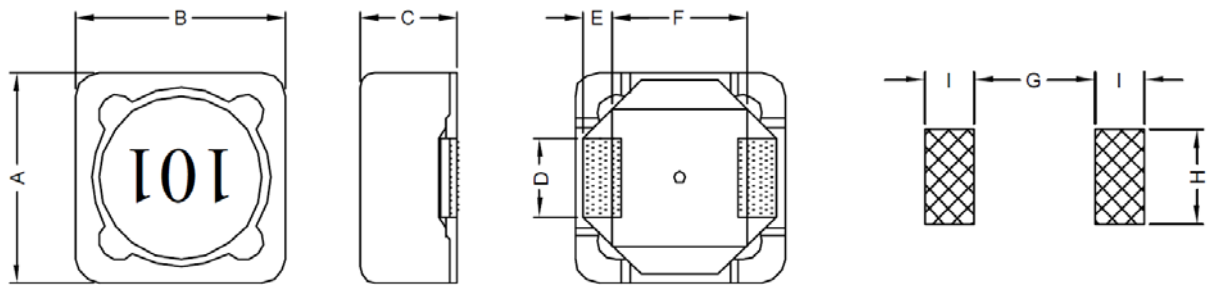
(c) Inductance Code

(d) Tolerance Code

(e) Standard Code

(f) RoHS Compliant

2. Configuration & Dimensions :



Recommended PCB Pattern

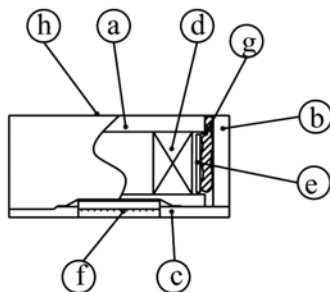
Unit: mm

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 Max. at Irms
- b)  $\Delta L/L_0=20\%$  Max.at Isat
- c) Operating Temperature: -40°C to 125°C
- d) Storage Temperature: -40°C to 125°C

## 6. Electrical Characteristics

Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	RDC (mΩ) Max.	Isat (A) Max.	Irms (A) Max.
SDB12071R2□ZF	1.2	Y	1V/100K	7.0	9.80	8.90
SDB12072R7□ZF	2.7	Y	1V/100K	11.5	8.00	7.20
SDB12073R9□ZF	3.9	Y	1V/100K	13.5	7.50	6.90
SDB12074R7□ZF	4.7	Y	1V/100K	15.8	6.80	6.60
SDB12075R6□ZF	5.6	Y	1V/100K	17.6	6.60	6.30
SDB12077R6□ZF	7.6	Y	1V/100K	20.0	5.90	6.00
SDB1207100□ZF	10	M	1V/1K	21.6	5.40	5.20
SDB1207120□ZF	12	M	1V/1K	24.3	4.90	5.20
SDB1207150□ZF	15	M	1V/1K	27.0	4.50	4.90
SDB1207180□ZF	18	M	1V/1K	39.2	3.90	4.50
SDB1207220□ZF	22	M	1V/1K	43.2	3.60	4.20
SDB1207270□ZF	27	M	1V/1K	45.9	3.40	4.00
SDB1207330□ZF	33	M	1V/1K	64.8	3.00	3.40
SDB1207390□ZF	39	M	1V/1K	72.9	2.75	3.20
SDB1207470□ZF	47	M	1V/1K	100	2.50	2.60
SDB1207560□ZF	56	L	1V/1K	110	2.35	2.50
SDB1207680□ZF	68	L	1V/1K	140	2.10	2.30
SDB1207820□ZF	82	L	1V/1K	160	1.95	2.00
SDB1207101□ZF	100	L	1V/1K	220	1.70	1.90
SDB1207121□ZF	120	L	1V/1K	250	1.60	1.80
SDB1207151□ZF	150	L	1V/1K	280	1.42	1.70
SDB1207181□ZF	180	K	1V/1K	350	1.30	1.40
SDB1207221□ZF	220	K	1V/1K	390	1.16	1.30
SDB1207271□ZF	270	K	1V/1K	560	1.06	1.20

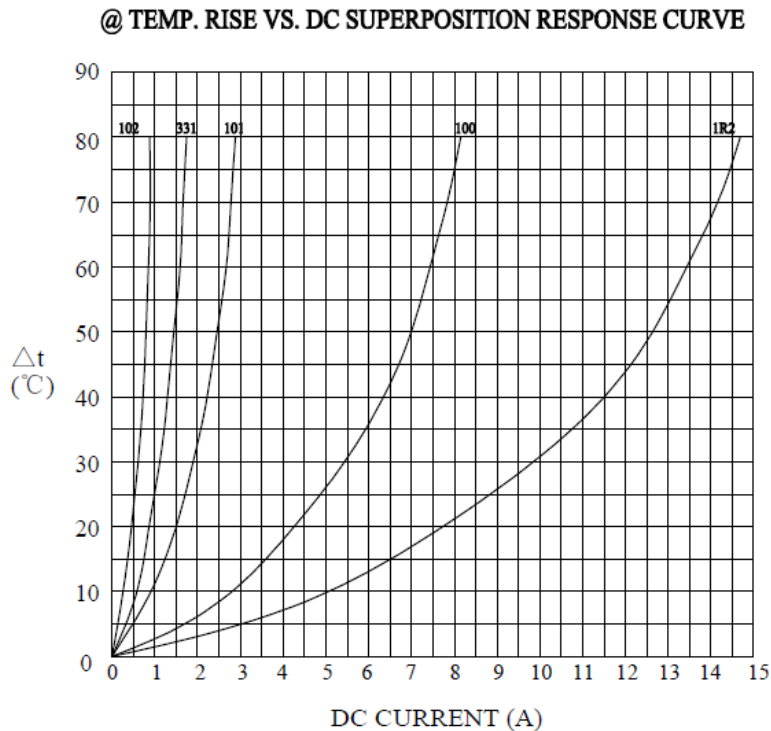
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Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	RDC (mΩ) Max.	Isat (A) Max.	Irms (A) Max.
SDB1207331□ZF	330	K	1V/1K	640	0.95	1.10
SDB1207391□ZF	390	K	1V/1K	700	0.88	1.10
SDB1207471□ZF	470	K	1V/1K	980	0.79	0.90
SDB1207561□ZF	560	K	1V/1K	1070	0.73	0.90
SDB1207681□ZF	680	K	1V/1K	1460	0.67	0.80
SDB1207821□ZF	820	K	1V/1K	1640	0.60	0.60
SDB1207102□ZF	1000	K	1V/1K	1820	0.55	0.60

Tolerance: K= ±10%, L=±15%, M=±20%, Y=±30%

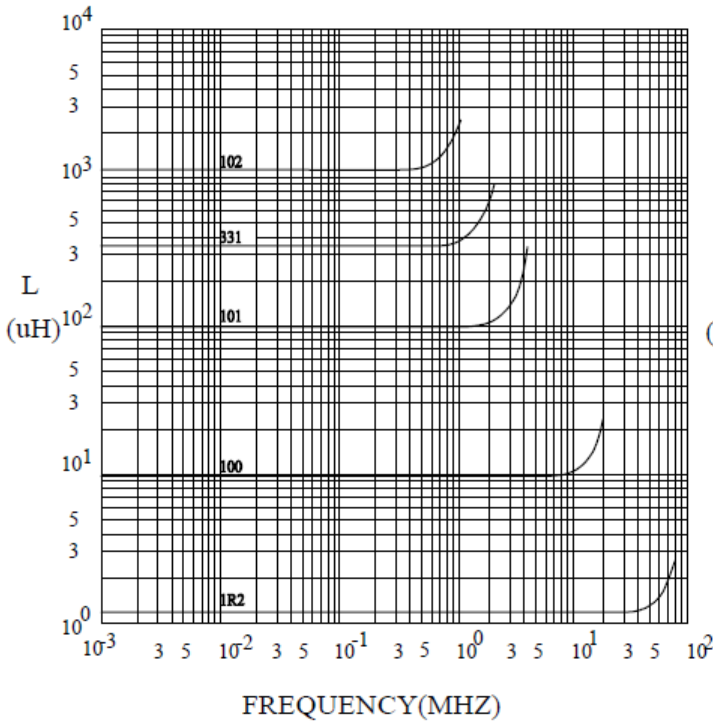
### 7. Characteristic Curve



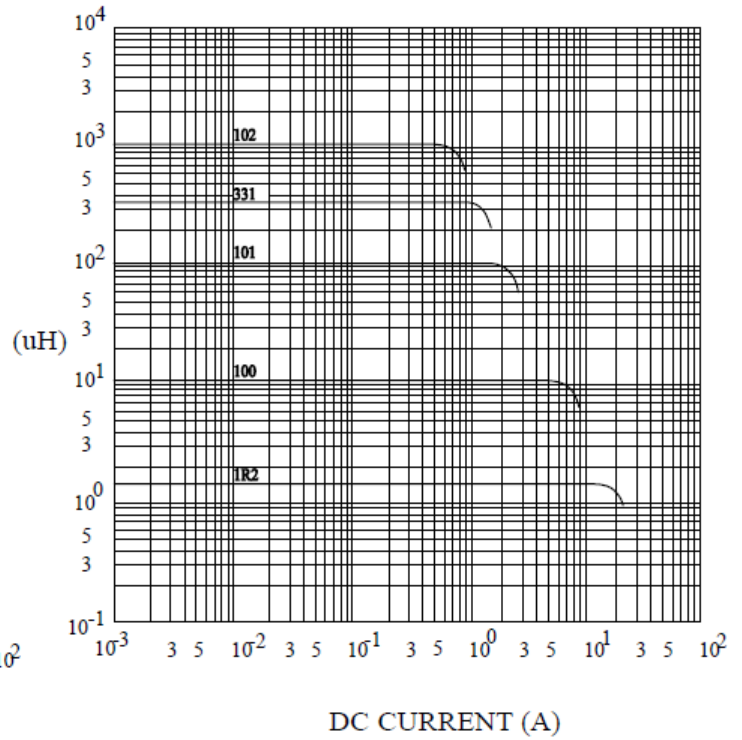
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@ INDUCTANCE VS. FREQUENCY RESPONSE CURVE

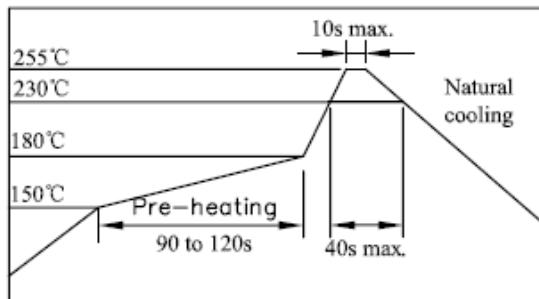


@ INDUCTANCE VS. DC SUPERPOSITION RESPONSE CURVE



### 8. Soldering

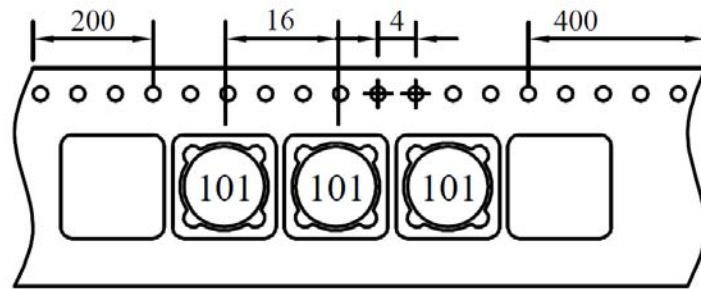
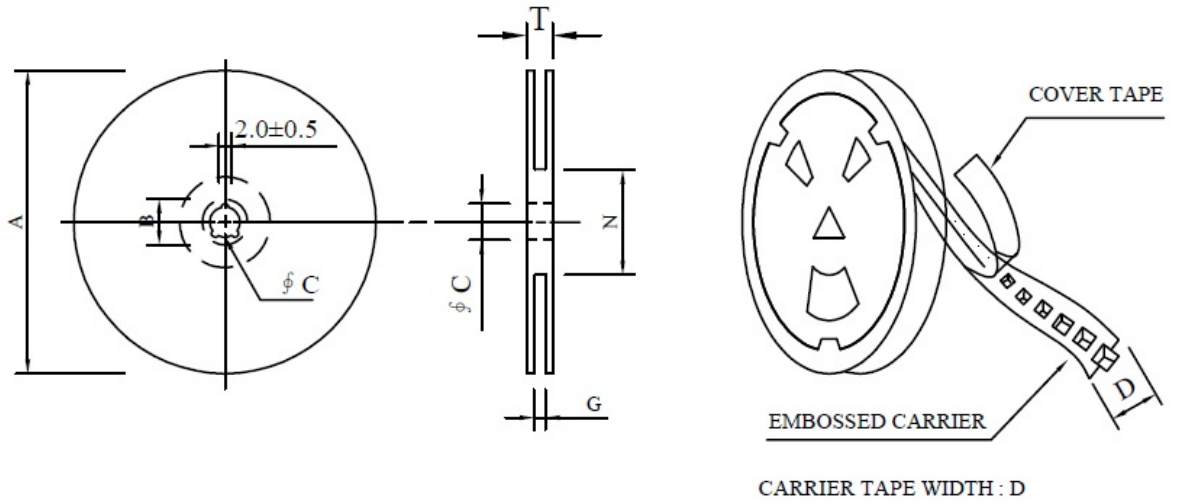
#### RECOMMENDED SOLDERING CONDITIONS REFLOW SOLDERINGS



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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.	100 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	36x35.5x14.3

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