

1. Part No. Expression:

S D C 1 2 0 7 2 2 0 M F

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

(a) Series Code

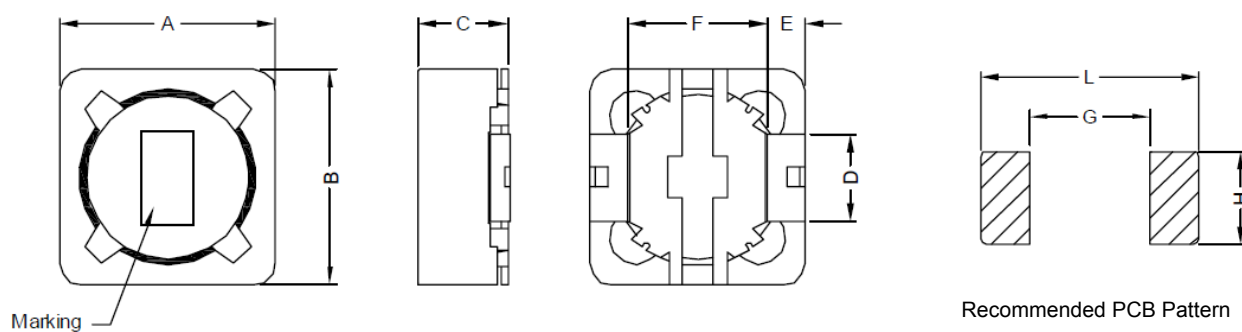
(b) Dimension Code

(c) Inductance Code

(d) Tolerance Code

(e) RoHS Compliant

2. Configuration & Dimensions :



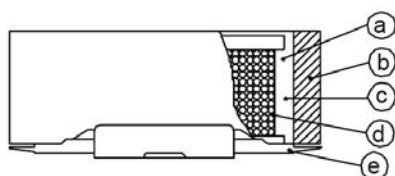
Unit: mm

A	B	C	D	E	F	G	H	L
12.5±0.3	12.5±0.3	8.0 Max.	5.0 Ref.	2.2 Ref.	7.6 Ref.	7.00 Ref.	5.40 Ref.	12.60 Ref.

3. Schematic



4. Material List



a) Core

b) Core

c) Glue

d) Wire

e) Clip

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

5. General Specification

- a) Temp. rise: 40°C Typ.
- b) Rated Current: Base on temp. rise $\Delta L/L_0 \leq 35\%$
- c) Operating Temperature: -40°C to 85°C
- d) Storage Condition : -40°C to 85°C

6. Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (Hz)	DCR (Ω) Max.	IDC (A) Max.
SDC12071R2YF	1.20	1V/100K	0.0070	9.80
SDC12072R4YF	2.40	1V/100K	0.0115	8.00
SDC12072R7YF	2.70	1V/100K	0.0115	8.00
SDC12073R5YF	3.50	1V/100K	0.0135	7.50
SDC12073R9YF	3.90	1V/100K	0.0135	7.50
SDC12074R7YF	4.70	1V/100K	0.0158	6.80
SDC12076R1YF	6.10	1V/100K	0.0176	6.60
SDC12077R6YF	7.60	1V/100K	0.0200	5.90
SDC1207100MF	10.0	1V/1K	0.0216	5.40
SDC1207120MF	12.0	1V/1K	0.0243	4.90
SDC1207150MF	15.0	1V/1K	0.0270	4.50
SDC1207180MF	18.0	1V/1K	0.0392	3.90
SDC1207220MF	22.0	1V/1K	0.0432	3.60
SDC1207270MF	27.0	1V/1K	0.0459	3.40
SDC1207330MF	33.0	1V/1K	0.0648	3.00
SDC1207390MF	39.0	1V/1K	0.0729	2.75
SDC1207470MF	47.0	1V/1K	0.1000	2.50
SDC1207560MF	56.0	1V/1K	0.1100	2.35
SDC1207680MF	68.0	1V/1K	0.1400	2.10
SDC1207820MF	82.0	1V/1K	0.1600	1.95
SDC1207101MF	100	1V/1K	0.2200	1.70
SDC1207121MF	120	1V/1K	0.2500	1.60
SDC1207151MF	150	1V/1K	0.2800	1.42
SDC1207181MF	180	1V/1K	0.3500	1.30

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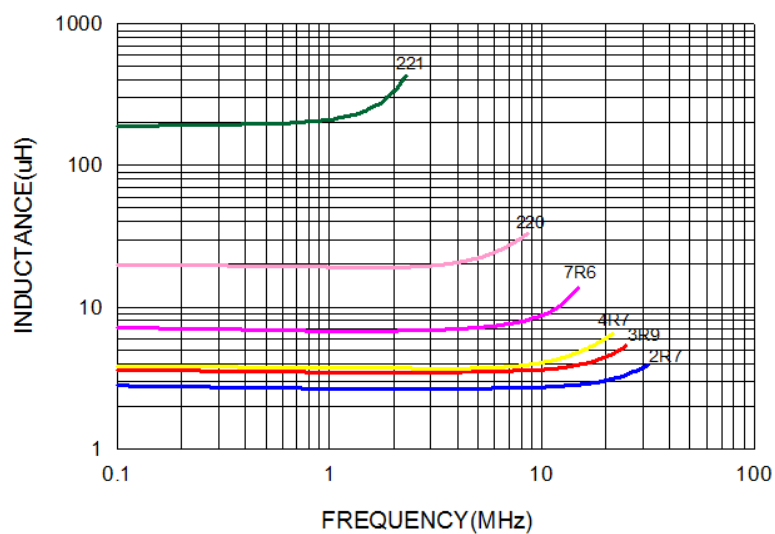
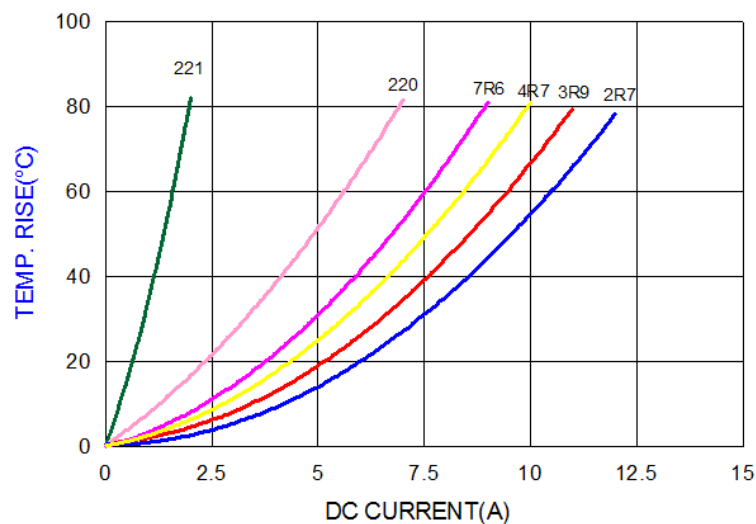
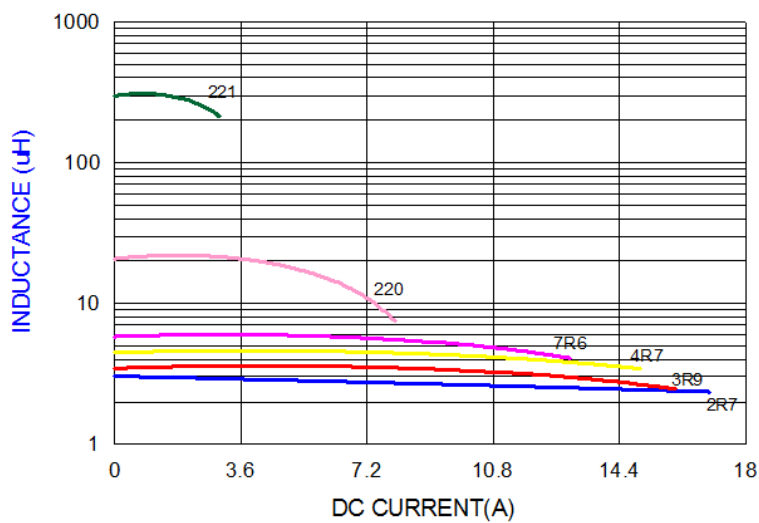
Part Number	Inductance (uH)	Test Frequency (Hz)	DCR (Ω) Max.	IDC (A) Max.
SDC1207221MF	220	1V/1K	0.3900	I _{rms} =0.8/I _{sat} =1.16
SDC1207271MF	270	1V/1K	0.5600	1.06
SDC1207331MF	330	1V/1K	0.6400	0.95
SDC1207391MF	390	1V/1K	0.7000	0.88
SDC1207471MF	470	1V/1K	0.9800	0.79
SDC1207561MF	560	1V/1K	1.0700	0.73
SDC1207681MF	680	1V/1K	1.4600	0.67
SDC1207821MF	820	1V/1K	1.6400	0.60
SDC1207102MF	1000	1V/1K	1.8200	0.55

Note: Tolerance: Y = $\pm 30\%$, M = $\pm 20\%$

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7. Characteristic Curve

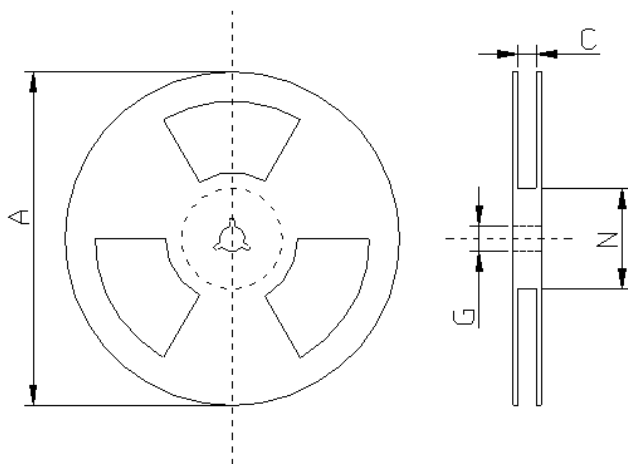


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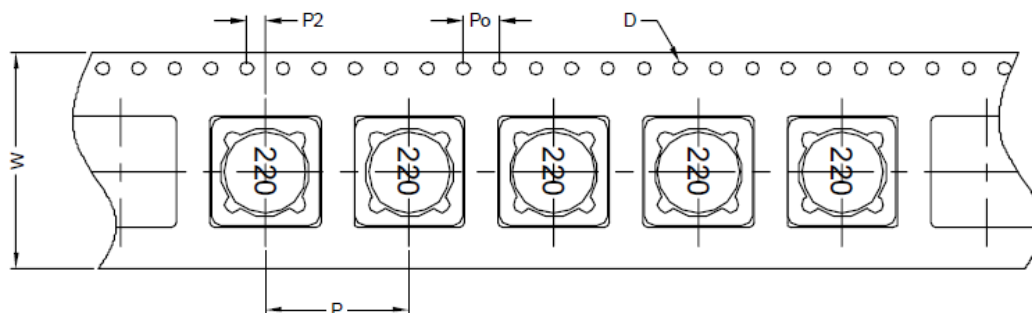
8. Packaging Information

8-1 Tape & Reel Dimension



Style	A(mm)	C(mm)	G(mm)	N(mm)
13"X24mm	330	24.5±0.5	13.5±0.5	100±1

8-2 Reel Dimension



Style	W(mm)	P(mm)	P2(mm)	D(mm)	P0(mm)
24mm	24±0.3	16±0.1	2±0.1	1.5±0.25	4±0.1

8-3 Packaging Quantity

Series	SDC1207
Chip/Reel	450

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Application Notice:

1. Storage Conditions:

To maintain the solderability of terminal electrodes:

- a) Recommended products should be used within 12 months from the time of delivery.
- b) The packaging material should be kept where no chlorine or sulfur exists in the air.

2. Transportation:

- a) Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
- b) Vacuum pick up is strongly recommended for individual components.
- c) Bulk handling should ensure that abrasion and mechanical shock are minimized

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