

1. Part No. Expression:

S D C 1 2 0 5 2 2 0 M F

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

(a) Series Code

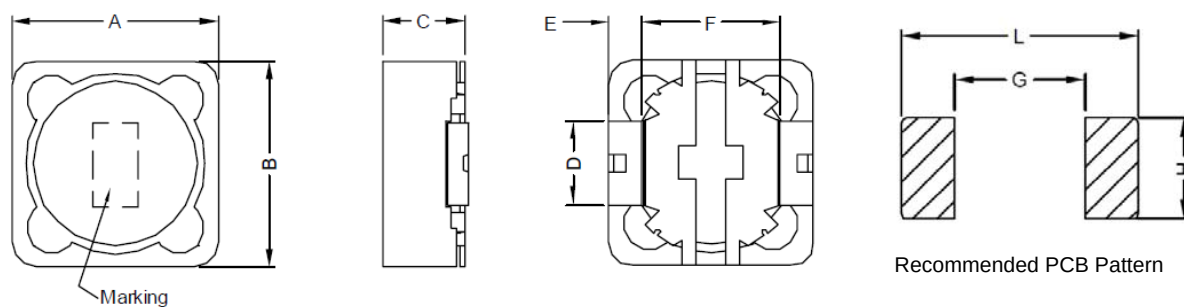
(b) Dimension Code

(c) Inductance Code

(d) Tolerance Code

(e) RoHS Compliant

2. Configuration & Dimensions :



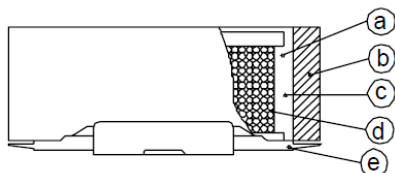
Unit: mm

A	B	C	D	E	F	G	H	L
12.80 Max.	12.80 Max.	6.00 Max.	5.00 Ref.	2.20 Ref.	7.60 Ref.	7.00 Ref.	5.40 Ref.	12.60 Ref.

3. Schematic



4. Material List



a) DR Core

b) RI 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 & L/L0A =35% Max.
- c) Operating Temperature: -40°C to 85°C
- d) Storage Condition (component in packaging):
 - i) Temperature: Less than 40°C
 - ii) Humidity: 70% RH

6. Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (Hz)	DCR (Ω) Max.	IDC (A) Max.
SDC12051R3YF	1.3 ± 20%	1V/1K	0.012	8.00
SDC12052R1YF	2.1 ± 20%	1V/1K	0.014	7.00
SDC12053R1YF	3.1 ± 20%	1V/1K	0.017	6.00
SDC12054R4YF	4.4 ± 20%	1V/1K	0.020	5.00
SDC12055R8YF	5.8 ± 20%	1V/1K	0.021	4.40
SDC12057R5YF	7.5 ± 20%	1V/1K	0.024	4.20
SDC1205100MF	10 ± 20%	1V/1K	0.025	4.00
SDC1205120MF	12 ± 20%	1V/1K	0.027	3.50
SDC1205150MF	15 ± 20%	1V/1K	0.030	3.30
SDC1205180MF	18 ± 20%	1V/1K	0.034	3.00
SDC1205220MF	22 ± 20%	1V/1K	0.036	2.80
SDC1205270MF	27 ± 20%	1V/1K	0.051	2.30
SDC1205330MF	33 ± 20%	1V/1K	0.057	2.10
SDC1205390MF	39 ± 20%	1V/1K	0.068	2.00
SDC1205470MF	47 ± 20%	1V/1K	0.075	1.80
SDC1205560MF	56 ± 20%	1V/1K	0.110	1.70
SDC1205680MF	68 ± 20%	1V/1K	0.120	1.50
SDC1205820MF	82 ± 20%	1V/1K	0.140	1.40
SDC1205101MF	100 ± 20%	1V/1K	0.160	1.30
SDC1205121MF	120 ± 20%	1V/1K	0.170	1.10
SDC1205151MF	150 ± 20%	1V/1K	0.230	1.00
SDC1205181MF	180 ± 20%	1V/1K	0.290	0.90
SDC1205221MF	220 ± 20%	1V/1K	0.400	0.80
SDC1205271MF	270 ± 20%	1V/1K	0.460	0.75

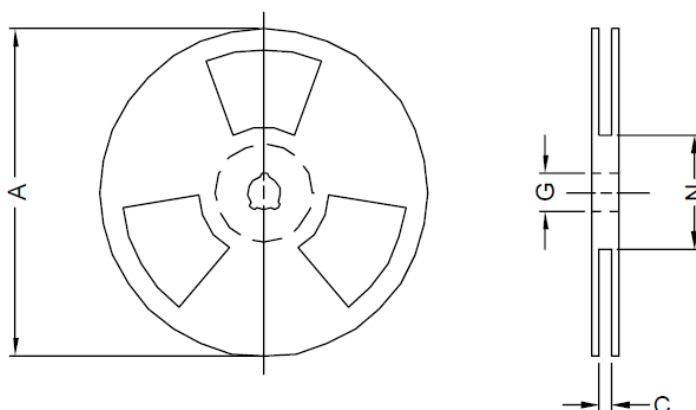
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Part Number	Inductance (uH)	Test Frequency (Hz)	DCR (Ω) Max.	IDC (A) Max.
SDC1205331MF	330 ± 20%	1V/1K	0.510	0.68
SDC1205391MF	390 ± 20%	1V/1K	0.690	0.65
SDC1205471MF	470 ± 20%	1V/1K	0.770	0.58
SDC1205561MF	560 ± 20%	1V/1K	0.860	0.54
SDC1205681MF	680 ± 20%	1V/1K	1.200	0.48
SDC1205821MF	820 ± 20%	1V/1K	1.340	0.43
SDC1205102MF	1000 ± 20%	1V/1K	1.530	0.40

7. Packaging Information

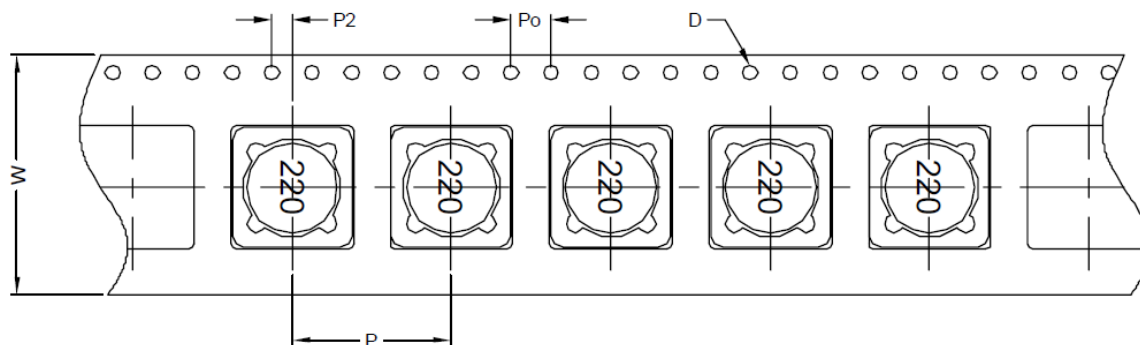
7-1 Reel Dimension



Style	A (mm)	C (mm)	G (mm)	N (mm)
13" x 24	330	24.5±0.5	13.5±0.5	100±1.0

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7-2 Tape Dimension



Style	W(mm)	P(mm)	P2(mm)	D(mm)	Po(mm)
24mm	24.0±0.3	16.0±0.1	2.0±0.1	1.5±0.25	4.0±0.1

7-3 Packaging Quantity

Series	SDC1205
Chip/Reel	600

Application Notice:

1. Storage Conditions:

To maintain the solderability of terminal electrodes:

- Recommended products should be used within 6 months from the time of delivery.
- The packaging material should be kept where no chlorine or sulfur exists in the air.

2. Transportation:

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

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