

1. Part No. Expression:

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

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

(a) Series Code

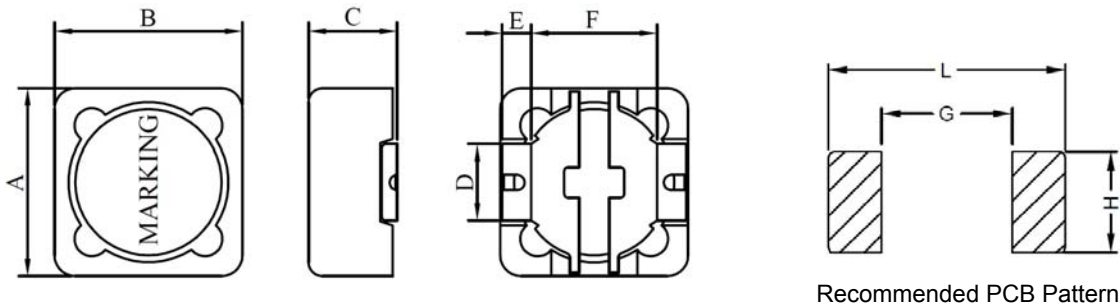
(b) Dimension Code

(c) Inductance Code

(d) Tolerance Code

(e) RoHS Compliant

2. Configuration & Dimensions :



Note: Marking: Inductance code.

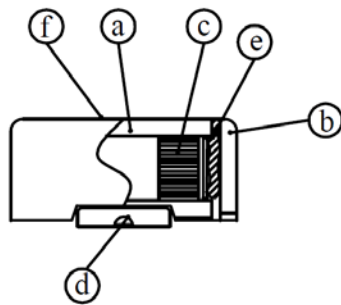
Unit: mm

A	B	C	D	E	F	G	H	L
12.8 Max.	12.8 Max.	6.0 Max.	5.0 Ref.	2.2 Ref.	7.6 Ref.	7.0 Ref.	5.4 Ref.	12.8 Ref.

3. Schematic



4. Material List



a) Core

b) Core

c) Wire

d) Clip

e) Adhesive

f) Ink

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



5. General Specification

- a) Operating Temperature: -40°C to 125°C.
- b) Storage Temperature: -40°C to 125°C.
- c) Temp. Rise: 40°C Typ.
- d) Rated Current: Base on Temp. Rise & L/L0A ≤35%.

6. Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (Hz)	DCR (mΩ) Max.	IDC (A) Max.
SDC12051R3YF	1.3	1V/100K	12	8.00
SDC12052R1YF	2.1	1V/100K	14	7.00
SDC12053R1YF	3.1	1V/100K	17	6.00
SDC12054R4YF	4.4	1V/100K	20	5.00
SDC12055R8YF	5.8	1V/100K	21	4.40
SDC12057R5YF	7.5	1V/100K	24	4.20
SDC1205100MF	10	1V/1K	25	4.00
SDC1205120MF	12	1V/1K	27	3.50
SDC1205150MF	15	1V/1K	30	3.30
SDC1205180MF	18	1V/1K	34	3.00
SDC1205220MF	22	1V/1K	36	2.80
SDC1205270MF	27	1V/1K	51	2.30
SDC1205330MF	33	1V/1K	57	2.10
SDC1205390MF	39	1V/1K	68	2.00
SDC1205470MF	47	1V/1K	75	1.80
SDC1205560MF	56	1V/1K	110	1.70
SDC1205680MF	68	1V/1K	120	1.50
SDC1205820MF	82	1V/1K	140	1.40
SDC1205101MF	100	1V/1K	160	1.30
SDC1205121MF	120	1V/1K	170	1.10
SDC1205151MF	150	1V/1K	230	1.00
SDC1205181MF	180	1V/1K	290	0.90
SDC1205221MF	220	1V/1K	400	0.80
SDC1205271MF	270	1V/1K	460	0.75

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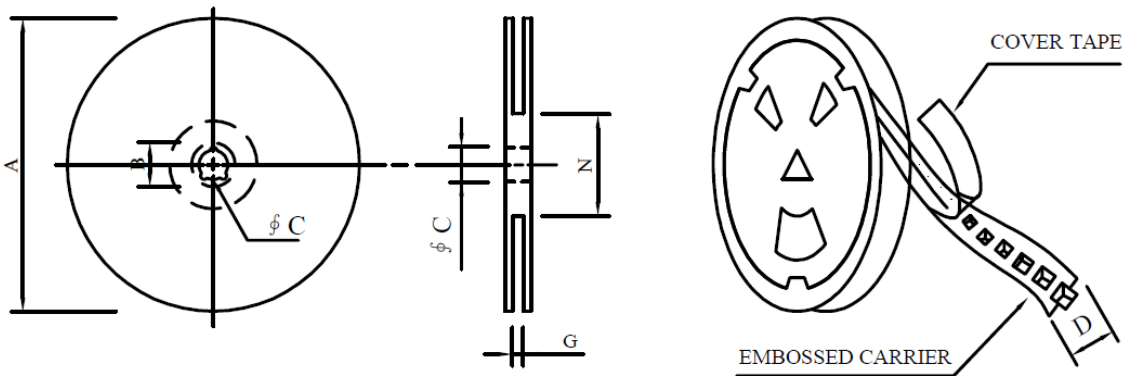


Part Number	Inductance (uH)	Test Frequency (Hz)	DCR (mΩ) Max.	IDC (A) Max.
SDC1205331MF	330	1V/1K	510	0.68
SDC1205391MF	390	1V/1K	690	0.65
SDC1205471MF	470	1V/1K	770	0.58
SDC1205561MF	560	1V/1K	860	0.54
SDC1205681MF	680	1V/1K	1200	0.48
SDC1205821MF	820	1V/1K	1340	0.43
SDC1205102MF	1000	1V/1K	1530	0.40

Tolerance: Y = ±30%, M = ±20%

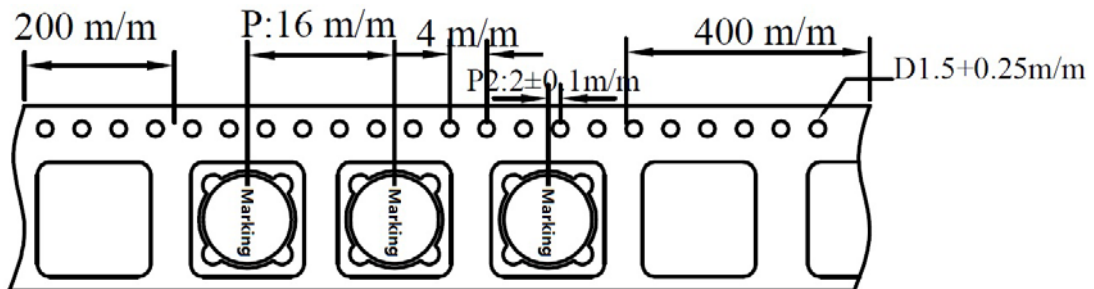
7. Packaging Information

7-1 Reel Dimension



Style	A (mm)	B (mm)	C (mm)	D (mm)	G (mm)	N (mm)
13 - 24	330	21	13	24	24.5	100

7-2 Tape Dimension



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7-3 Packaging Quantity

Series	Inner: Reel		Outer: Carton	
	Qty (pcs)	Style	Qty (pcs)	Size (cm)
SDC1205	600	13-24	2400	36 x 35.5 x 14.3

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