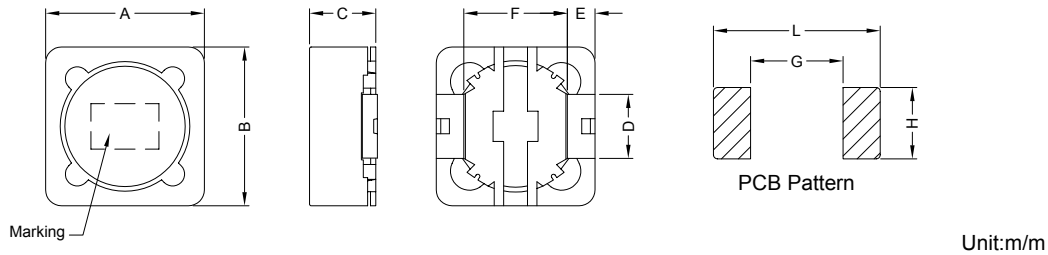


1. PART NO. EXPRESSION :

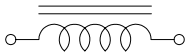
S	D	C	1	2	0	7	-	1	R	2	Y	F
(a)	(b)	(c)	(d)(e)					(a) Series code		(d) Tolerance code : M = ±20%, Y = ±30%		
								(b) Dimension code		(e) F : RoHS Compliant		
								(c) Inductance code : 1R2 = 1.2uH				

2. CONFIGURATION & DIMENSIONS :



A	B	C	D	E	F	G	H	L
12.8 Max.	12.8 max.	8.5 Max.	5.0 Ref.	2.2 Ref.	7.6 Ref.	7.0 Ref.	5.4 Ref.	12.6 Ref.

3. SCHEMATIC :



4. GENERAL SPECIFICATION :

- a) Temp. rise : 40°C Typ.
- b) Rated current : Base on temp. rise & $\Delta L/L0A \leq 35\%$
- c) Operating temp. : -40°C to +85°C
- d) Storage temp. : -40°C to +85°C



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5. ELECTRICAL CHARACTERISTICS :

Part No.	Inductance (μ H)	Test Frequency (Hz)	DCR (Ω) Max.	IDC (A) Max.
SDC1207-1R2YF	1.2 \pm 30%	1V / 100K	0.0070	9.80
SDC1207-2R4YF	2.4 \pm 30%	1V / 100K	0.0115	8.00
SDC1207-3R5YF	3.5 \pm 30%	1V / 100K	0.0135	7.50
SDC1207-4R7YF	4.7 \pm 30%	1V / 100K	0.0158	6.80
SDC1207-6R1YF	6.1 \pm 30%	1V / 100K	0.0176	6.60
SDC1207-7R6YF	7.6 \pm 30%	1V / 100K	0.0200	5.90
SDC1207-100MF	10 \pm 20%	1V / 1K	0.0216	5.40
SDC1207-120MF	12 \pm 20%	1V / 1K	0.0243	4.90
SDC1207-150MF	15 \pm 20%	1V / 1K	0.0270	4.50
SDC1207-180MF	18 \pm 20%	1V / 1K	0.0392	3.90
SDC1207-220MF	22 \pm 20%	1V / 1K	0.0432	3.60
SDC1207-270MF	27 \pm 20%	1V / 1K	0.0459	3.40
SDC1207-330MF	33 \pm 20%	1V / 1K	0.0648	3.00
SDC1207-390MF	39 \pm 20%	1V / 1K	0.0729	2.75
SDC1207-470MF	47 \pm 20%	1V / 1K	0.100	2.50
SDC1207-560MF	56 \pm 20%	1V / 1K	0.110	2.35
SDC1207-680MF	68 \pm 20%	1V / 1K	0.140	2.10
SDC1207-820MF	82 \pm 20%	1V / 1K	0.160	1.95
SDC1207-101MF	100 \pm 20%	1V / 1K	0.220	1.70
SDC1207-121MF	120 \pm 20%	1V / 1K	0.250	1.60
SDC1207-151MF	150 \pm 20%	1V / 1K	0.280	1.42
SDC1207-181MF	180 \pm 20%	1V / 1K	0.350	1.30
SDC1207-221MF	220 \pm 20%	1V / 1K	0.390	1.16
SDC1207-271MF	270 \pm 20%	1V / 1K	0.560	1.06
SDC1207-331MF	330 \pm 20%	1V / 1K	0.640	0.95
SDC1207-391MF	390 \pm 20%	1V / 1K	0.700	0.88
SDC1207-471MF	470 \pm 20%	1V / 1K	0.980	0.79
SDC1207-561MF	560 \pm 20%	1V / 1K	1.070	0.73
SDC1207-681MF	680 \pm 20%	1V / 1K	1.460	0.67
SDC1207-821MF	820 \pm 20%	1V / 1K	1.640	0.60
SDC1207-102MF	1000 \pm 20%	1V / 1K	1.820	0.55



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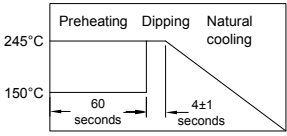
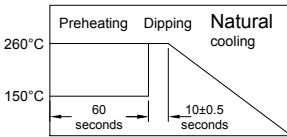
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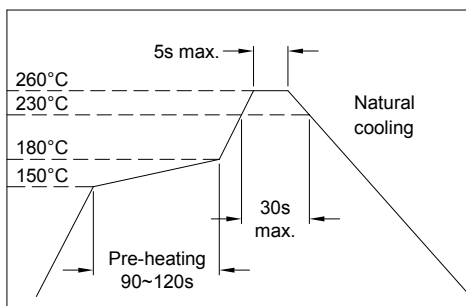


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6. RELIABILITY AND TEST CONDITIONS :

ITEM	PERFORMANCE	TEST CONDITION															
Mechanical Performance Test																	
Solderability Test	More than 90% of the terminal electrode should be covered with solder. 	Preheat : 150°C, 60sec. Solder : Sn-Ag3.0-Cu0.5 Solder Temperature : 245±5°C Flux for lead free : rosin Dip Time : 4±1sec.															
Solder Heat Resistance	1. Appearance : No significant abnormality 2. Inductance change : Within ±20% 	Preheat : 150°C, 60sec. Solder : Sn-Ag3.0-Cu0.5 Solder Temperature : 260±5°C Flux for lead free : rosin Dip Time : 10±0.5sec.															
Reliability Test																	
High Temperature Life Test		Temperature : 85±2°C Time : 500 hours Applied current : rated current															
Thermal Shock	1. Appearance : No damage 2. Inductance : Within ±20% of initial value.	Conditions of 1 cycle. <table border="1" data-bbox="933 1019 1300 1153"> <thead> <tr> <th>Step</th> <th>Temperature (°C)</th> <th>Times (min.)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-25±2</td> <td>30±3</td> </tr> <tr> <td>2</td> <td>Room Temperature</td> <td>15</td> </tr> <tr> <td>3</td> <td>+85±2</td> <td>30±3</td> </tr> <tr> <td>4</td> <td>Room Temperature</td> <td>15</td> </tr> </tbody> </table> Total : 50 cycles	Step	Temperature (°C)	Times (min.)	1	-25±2	30±3	2	Room Temperature	15	3	+85±2	30±3	4	Room Temperature	15
Step	Temperature (°C)	Times (min.)															
1	-25±2	30±3															
2	Room Temperature	15															
3	+85±2	30±3															
4	Room Temperature	15															
Humidity Resistance	1. Appearance : No damage 2. Inductance : Within ±20% of initial value.	Temperature : 40±2°C Humidity : 90% to 95% Applied Current : Rated Current Time : 500 hours															
Random Vibration Test	Appearance : Cracking, chipping & any other defects harmful to the characteristics should not be allowed.	Frequency : 10-55-10Hz for 1 min. Amplitude : 1.52mm Directions & times : X, Y, Z directions for 2 hours. A period of 2 hours in each of 3 mutually perpendicular directions (Total 6 hours).															



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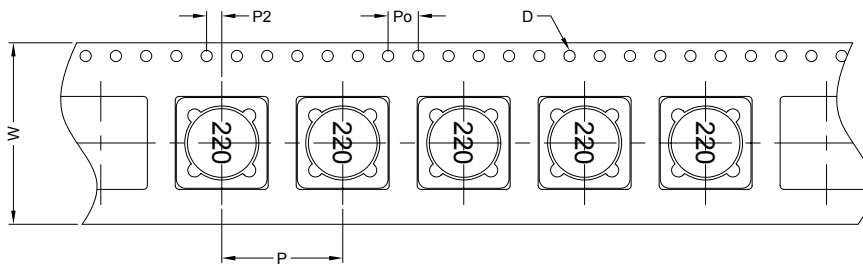
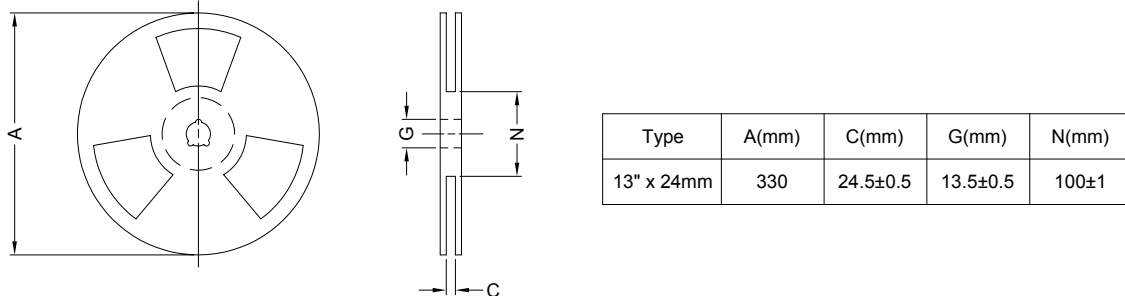


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PG. 3

7. PACKAGING INFORMATION :

7-1. Tape and Reel Dimension



W(mm)	P(mm)	P2(mm)	D(mm)	Po(mm)	Quantity (pcs)
24.0±0.3	16±0.1	2±0.1	1.5+0.25	4±0.1	450

Application Notice

1. Storage Conditions :

To maintain the solderability of terminal electrodes :

- Temperature and humidity conditions : Less than 40°C and 70% RH.
- 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.
- The use of tweezers or vacuum pick up is strongly recommended for individual components.
- Bulk handling should ensure that abrasion and mechanical shock are minimized.



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