

1. PART NO. EXPRESSION :

$\frac{S}{(a)} \frac{D}{(b)} \frac{C}{(c)} \frac{1}{(d)} \frac{2}{(e)} \frac{0}{(f)} \frac{4}{(g)} \frac{2}{(h)} \frac{2}{(i)} \frac{0}{(j)} \frac{M}{(k)} \frac{F}{(l)}$

(a) Series code

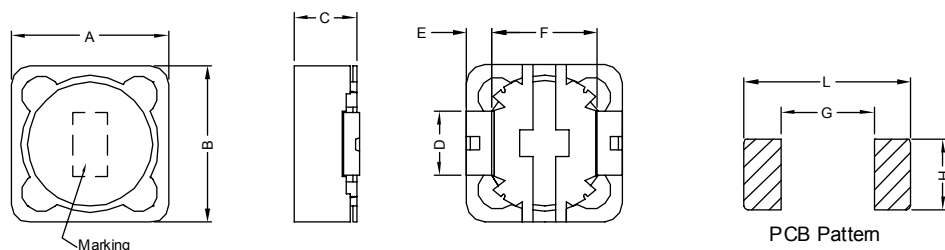
(b) Dimension code

(c) Inductance code : 220 = 22.0uH

(d) Tolerance code : M = $\pm 20\%$, Y = $\pm 30\%$

(e) F : RoHS Compliant

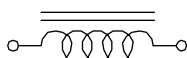
2. CONFIGURATION & DIMENSIONS :



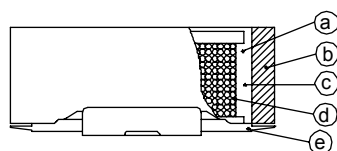
Unit:m/m

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

3. SCHEMATIC :



4. MATERIALS :



(a) Core

(b) Core

(c) Glue

(d) Wire

(e) Clip

5. 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 condition (component in its packaging)

i) Temperature : -10 to 40° C

ii) Humidity : 60%

e) Resistance to solder heat : 260° C.10 secs



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

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6. ELECTRICAL CHARACTERISTICS :

Part No.	Inductance (μ H)	Test Frequency (Hz)	DCR (Ω) Max.	IDC (A) Max.
SDC12043R9YF	3.9 $\pm$ 30%	1V / 100K	0.015	6.50
SDC12044R7YF	4.7 $\pm$ 30%	1V / 100K	0.018	5.70
SDC12046R8YF	6.8 $\pm$ 30%	1V / 100K	0.023	4.90
SDC12048R2YF	8.2 $\pm$ 30%	1V / 100K	0.026	4.60
SDC1204100MF	10 $\pm$ 20%	1V / 100K	0.028	4.50
SDC1204120MF	12 $\pm$ 20%	1V / 100K	0.038	4.00
SDC1204150MF	15 $\pm$ 20%	1V / 100K	0.052	3.20
SDC1204180MF	18 $\pm$ 20%	1V / 100K	0.060	3.10
SDC1204220MF	22 $\pm$ 20%	1V / 100K	0.070	2.90
SDC1204270MF	27 $\pm$ 20%	1V / 100K	0.080	2.80
SDC1204330MF	33 $\pm$ 20%	1V / 100K	0.097	2.70
SDC1204390MF	39 $\pm$ 20%	1V / 100K	0.132	2.10
SDC1204470MF	47 $\pm$ 20%	1V / 100K	0.160	1.90
SDC1204560MF	56 $\pm$ 20%	1V / 100K	0.190	1.80
SDC1204680MF	68 $\pm$ 20%	1V / 100K	0.220	1.50
SDC1204820MF	82 $\pm$ 20%	1V / 100K	0.260	1.30
SDC1204101MF	100 $\pm$ 20%	1V / 100K	0.308	1.20
SDC1204121MF	120 $\pm$ 20%	1V / 100K	0.380	1.10
SDC1204151MF	150 $\pm$ 20%	1V / 100K	0.530	0.95
SDC1204181MF	180 $\pm$ 20%	1V / 100K	0.620	0.85
SDC1204221MF	220 $\pm$ 20%	1V / 100K	0.700	0.80
SDC1204271MF	270 $\pm$ 20%	1V / 100K	0.870	0.60
SDC1204331MF	330 $\pm$ 20%	1V / 100K	0.990	0.50



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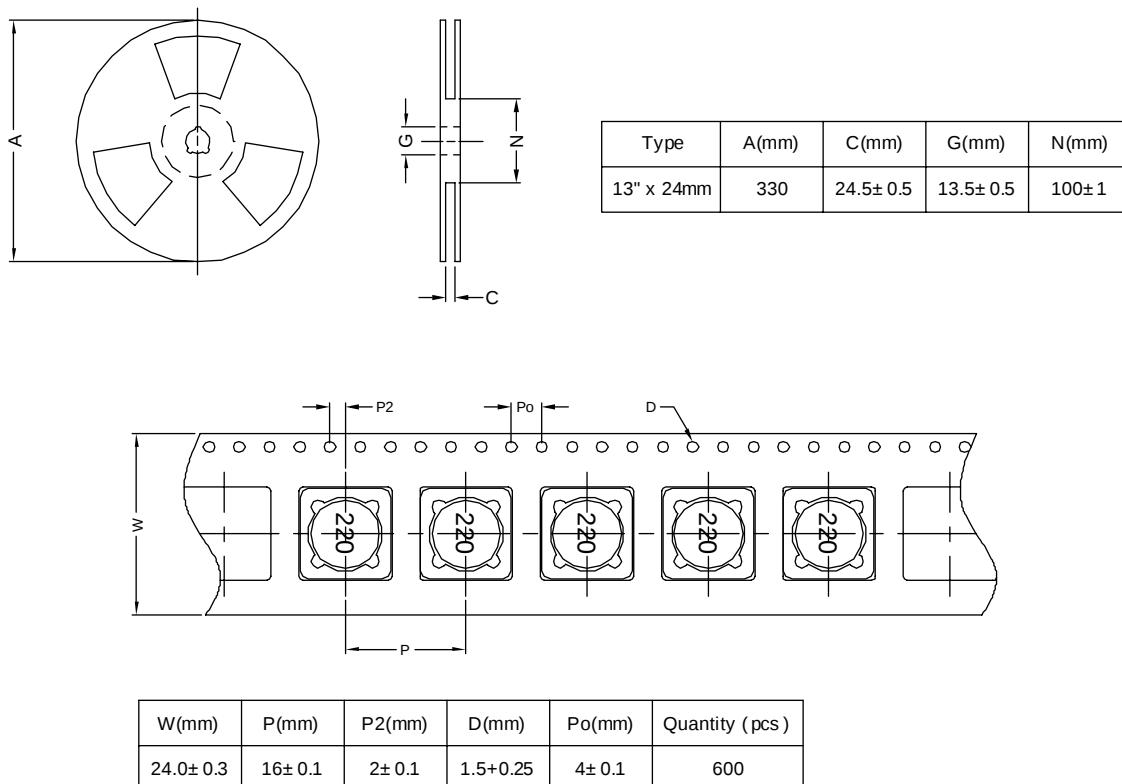


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7. PACKAGING INFORMATION :

7-1. Tape and Reel Dimension



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.
- 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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