

SPECIFICATION FOR APPROVAL

※This is a RoHS and REACH compliant product whose related documents are available on request.

※Graphic is only for dimensionally application.

1. Range of application:

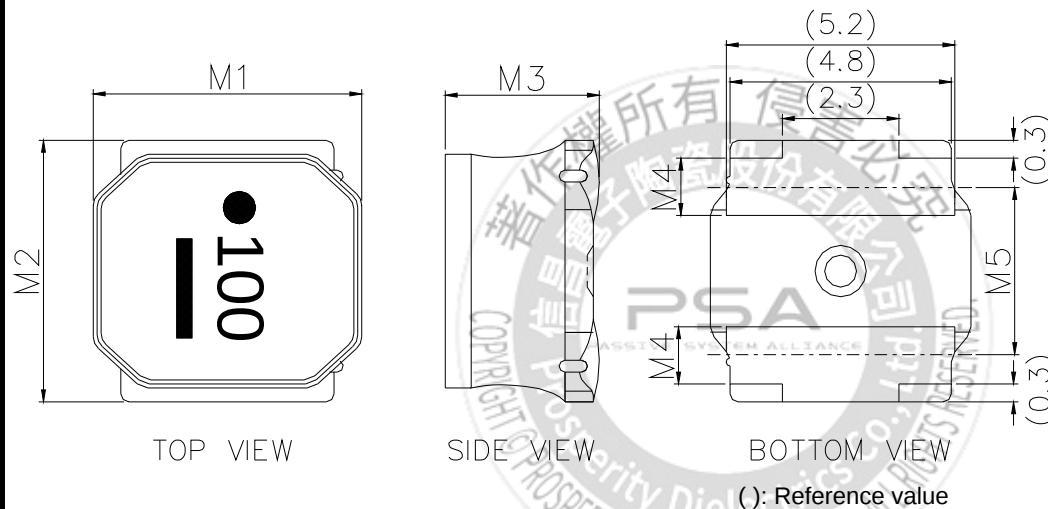
This specifications are applied to SMD Power Inductor, CSMS0645D.

2. Ordering code:

Example: **CSMS** **0645** **D** - **2R2** **M** - □ □ □ □
(1) (2) (3) (4) (5) (6) (7)

- (1) Product Type
- (2) External dimensions
- (3) Solder Type
- (4) Inductance
- (5) Inductance tolerance
- (6) Green product code
- (7) Internal Code

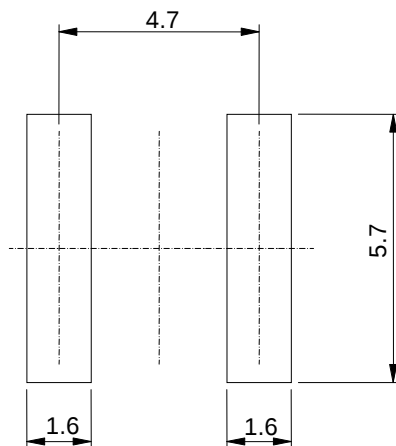
3. Mechanical Dimension:



UNIT : mm

	DIM.	TOL.
M1	6.0	±0.2
M2	6.0	±0.2
M3	4.5	MAX.
M4	1.35	±0.2
M5	4.0	±0.2

4. Recommended Land-Pattern(UNIT: mm):



SPECIFICATION FOR APPROVAL

5. Electrical Characteristics:

Part number	Nominal Inductance (uH) @100KHz	Inductance Tolerance	DC Resistance (Ω) ±20%	Rated Current (mA)		Self-resonant Frequency Min (MHz)
				Saturation Current Idc1	Temperature Rise Current Idc2	
CSMS0645D-1R0N-LRH	1.0	±30%	0.014	9800	4500	110
CSMS0645D-1R3N-LRH	1.3	±30%	0.016	8200	4200	95
CSMS0645D-1R8N-LRH	1.8	±30%	0.019	7200	3900	80
CSMS0645D-2R3N-LRH	2.3	±30%	0.022	6400	3600	60
CSMS0645D-3R0N-LRH	3.0	±30%	0.024	5600	3300	45
CSMS0645D-4R5M-LRH	4.5	±20%	0.030	4400	3100	25
CSMS0645D-6R3M-LRH	6.3	±20%	0.036	3600	3000	15
CSMS0645D-100M-LRH	10	±20%	0.046	3100	2400	12
CSMS0645D-150M-LRH	15	±20%	0.070	2500	1900	10
CSMS0645D-220M-LRH	22	±20%	0.107	2000	1600	7
CSMS0645D-330M-LRH	33	±20%	0.141	1650	1400	6
CSMS0645D-470M-LRH	47	±20%	0.211	1400	1150	5
CSMS0645D-680M-LRH	68	±20%	0.304	1100	950	4
CSMS0645D-101M-LRH	100	±20%	0.466	900	750	3

1. Test Frequency: 100KHz

2. Test Equipment:

Inductance: Chroma3302+1320+16502. or equivalent.

DCR: Chroma16502 or equivalent.

SRF: HP4291B or equivalent.

3. Saturation Current Idc1: The value of current causes a 30% inductance reduction from initial value.

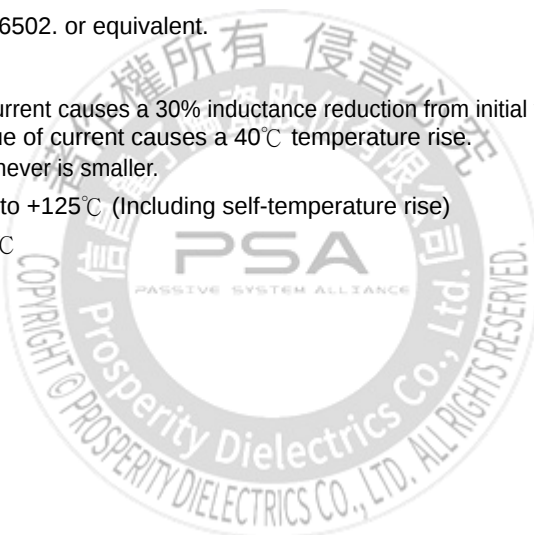
4. Temperature rise current Idc2: The value of current causes a 40°C temperature rise.

5. Rated Current: Either Idc1 or Idc2 whichever is smaller.

6. Operating Temperature Range:-25°C to +125°C (Including self-temperature rise)

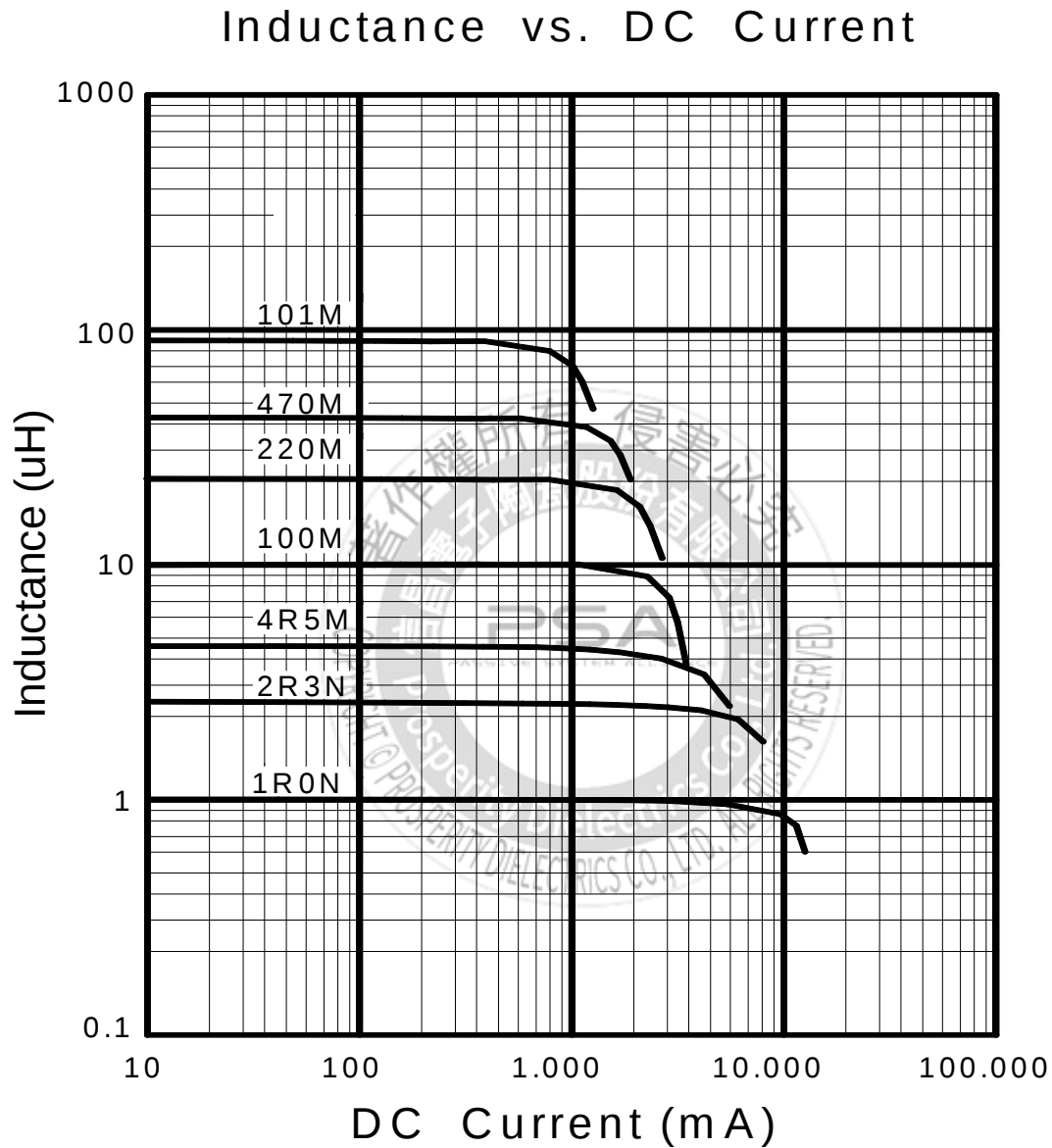
7. Storage Temp. Range : -40°C to +85°C

8. MSL : Level 1



SPECIFICATION FOR APPROVAL

6. Electrical Curve :

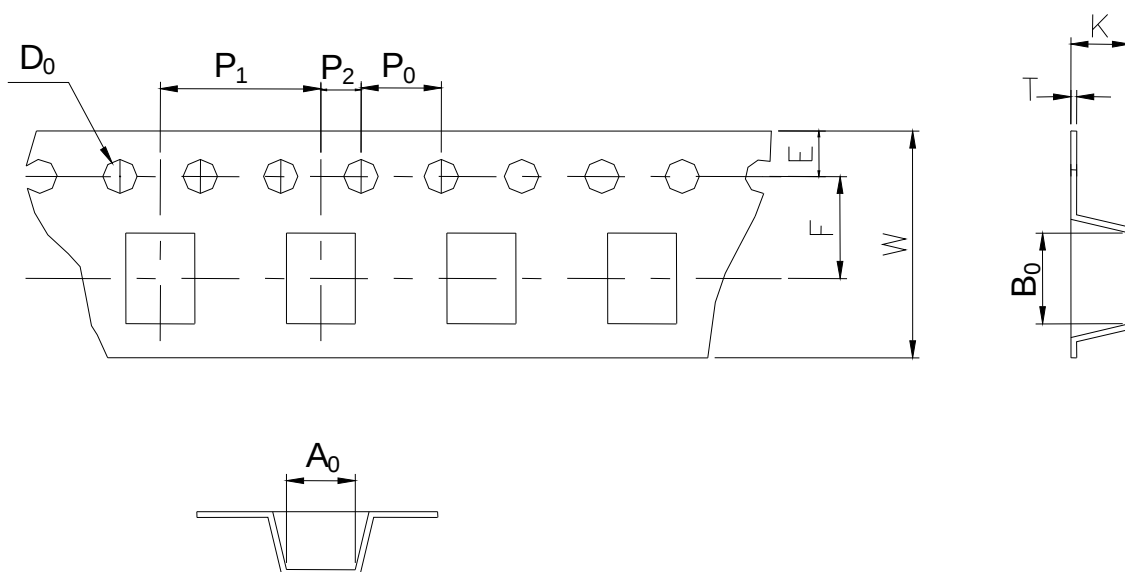


SPECIFICATION FOR APPROVAL

7. Tape & Reel Packaging Dimensions:

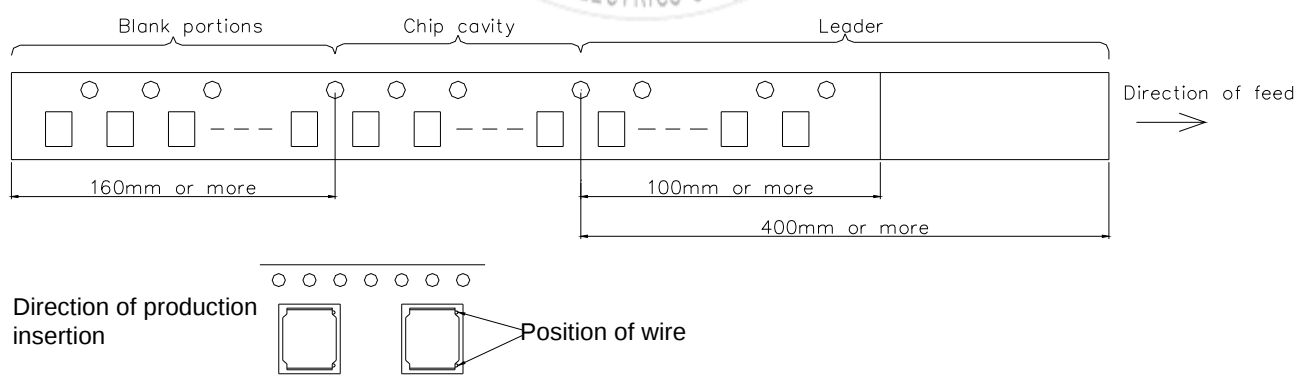
7-1 Dimensions

Unit: mm



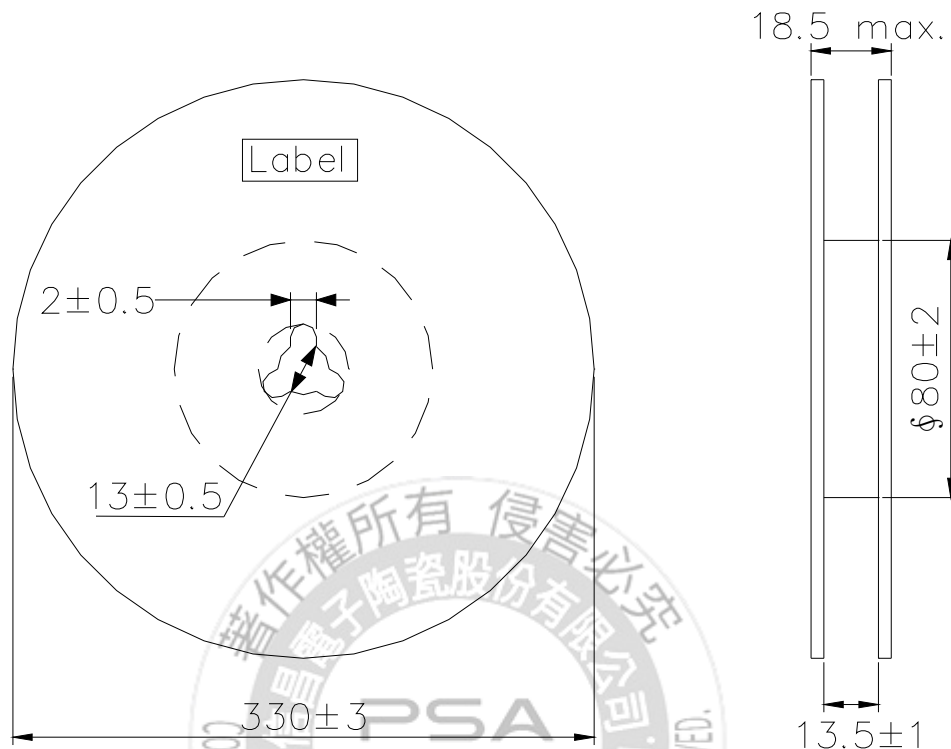
A_0	B_0	W	F	E	P_1	P_2	P_0	D_0	T	K
6.30 ± 0.1	6.30 ± 0.1	12.0 ± 0.3	5.5 ± 0.1	1.75 ± 0.1	8.0 ± 0.1	2.0 ± 0.1	4.0 ± 0.1	$\Phi 1.5$ $+0.1$ -0	0.40 ± 0.1	4.70 ± 0.1

7-2 Direction of rolling



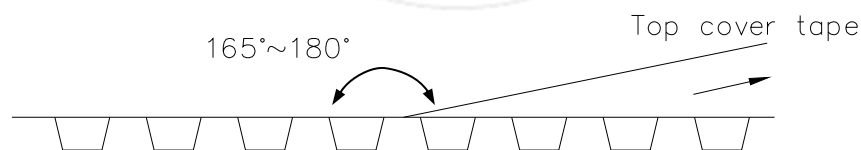
SPECIFICATION FOR APPROVAL

7-3 Reel



Label position: on the opposite side of sprocket holes side of reel

7-4 Top tape strength



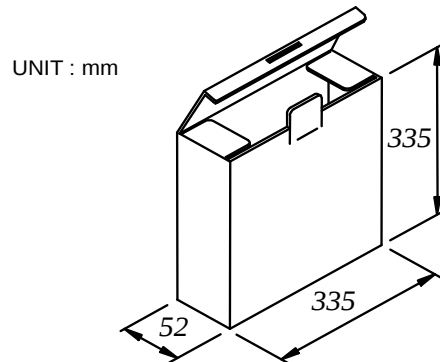
Peel-off strength: 0.1N~1.3N

Peel-off angle: $165^\circ \sim 180^\circ$

Peel-off speed: 300mm/mm

SPECIFICATION FOR APPROVAL

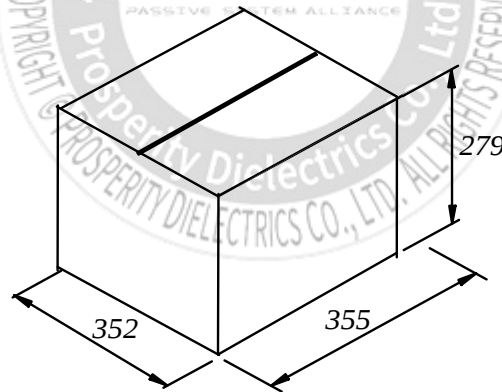
7-5 Dimensions of packing box (for Tape & Reel package)



CONSTRUCTION:

THE CASE CONTAINS 2-12mm WIDE CARRIER TAPES.

Q'TY : 1,500/ REEL



TOTAL Q'TY : 12,000 PCS