SMD Power Inductors
-YSMC0430V Series

■ Features

- Molding Inductor.
- Low Profile,Low Temp.
- Large Current(Over 15A).
- Customize For Different Need.
- Operating temperature:-40℃ ~ +125℃.

■ Applications

- General Electronic.
- Video Device,TV,TFT.
- Power Module for PC.
- NB/Lap Top Computer.
- Server,VGA Card/Module.

■ Product Identification

YSMC □□□□□－□□□ □

(1) (2) (3) (4)

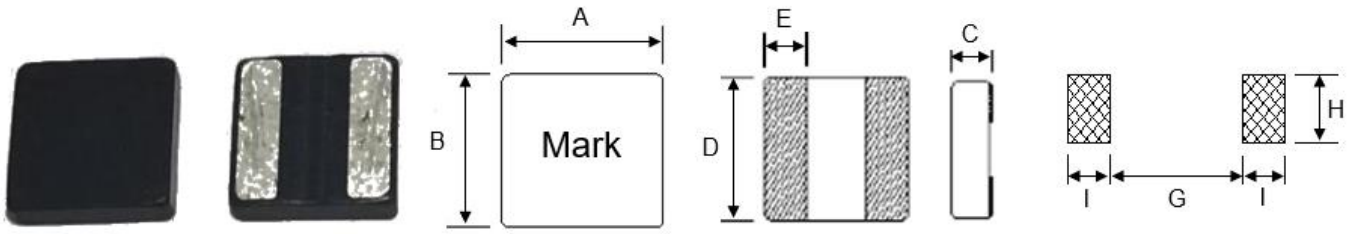
(1)： Type

(2)： Dimensions

(3)： Inductance value

(4)： Inductance Tolerance：N=±30%,M=±20%

■ Shapes and Dimensions (Unit：mm)



TYPE	A	B	C Max.	D	E	G Ref.	H Ref.	I Ref.
YSMC0430V	4.0±0.3	4.0±0.3	3.0	4.0±0.3	1.2+0.3/-0.2	1.5	4.3	1.5

■ YSMC0430V Series

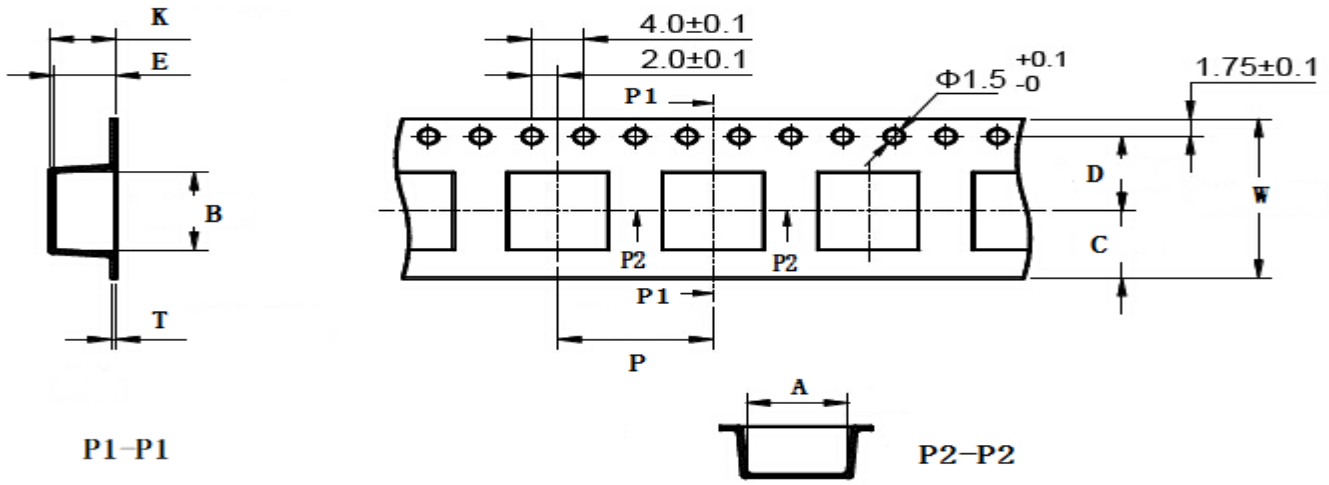
Part Number	Inductance (uH) @100KHz	DC Resistance (mΩ)		Heat Rating Current (A)	Saturation Current (A)
		Typ.	Max.		
YSMC0430V-R15M	0.15±20%	1.6	1.9	26.0	24.0
YSMC0430V-R30M	0.30±20%	2.5	2.9	24.0	17.0
YSMC0430V-R47M	0.47±20%	3.4	3.9	21.4	14.2
YSMC0430V-R68M	0.68±20%	4.2	4.8	14.0	12.0
YSMC0430V-1R0M	1.0±20%	6.5	7.2	13.0	10.3
YSMC0430V-1R5M	1.5±20%	9.5	10.5	10.2	8.8
YSMC0430V-2R2M	2.2±20%	13.5	15.0	8.7	7.0
YSMC0430V-3R3M	3.3±20%	19.9	21.9	7.5	5.3
YSMC0430V-4R7M	4.7±20%	28.5	31.5	6.6	4.4
YSMC0430V-6R8M	6.8±20%	43.5	47.9	4.7	3.6
YSMC0430V-8R2M	8.2±20%	50.6	55.7	4.2	3.4
YSMC0430V-100M	10±20%	63.0	69.5	3.9	3.1

※ The saturation current value is the DC current value having inductance decrease down to 30%.(at 20℃)

※ The temperature rise current value is the DC current value having temperature increase up to 40℃. (at 20℃)

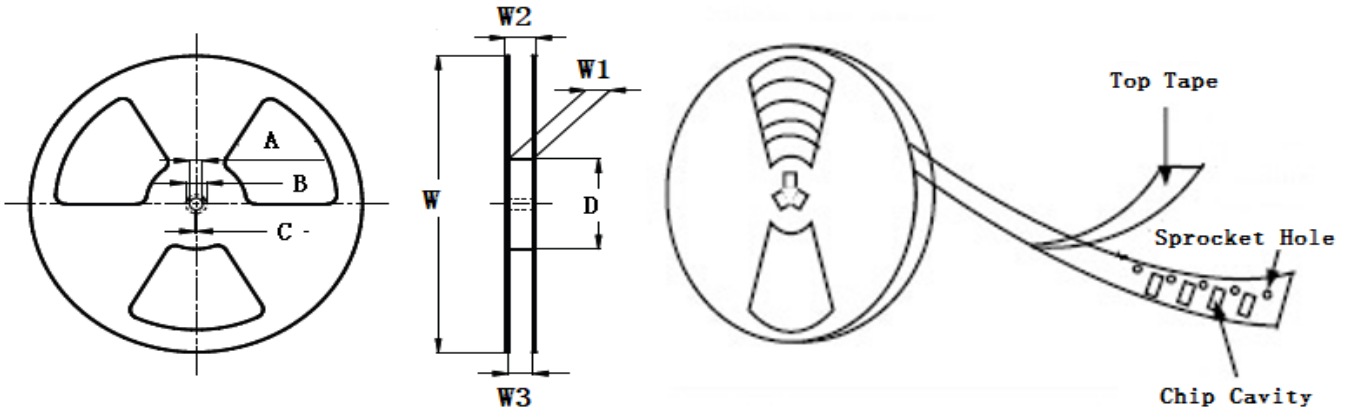
※ The rated current is the DC current value that satisfies both of current value saturation current value and temperature rise current value.

■ Taping Dimensions(Unit:mm)



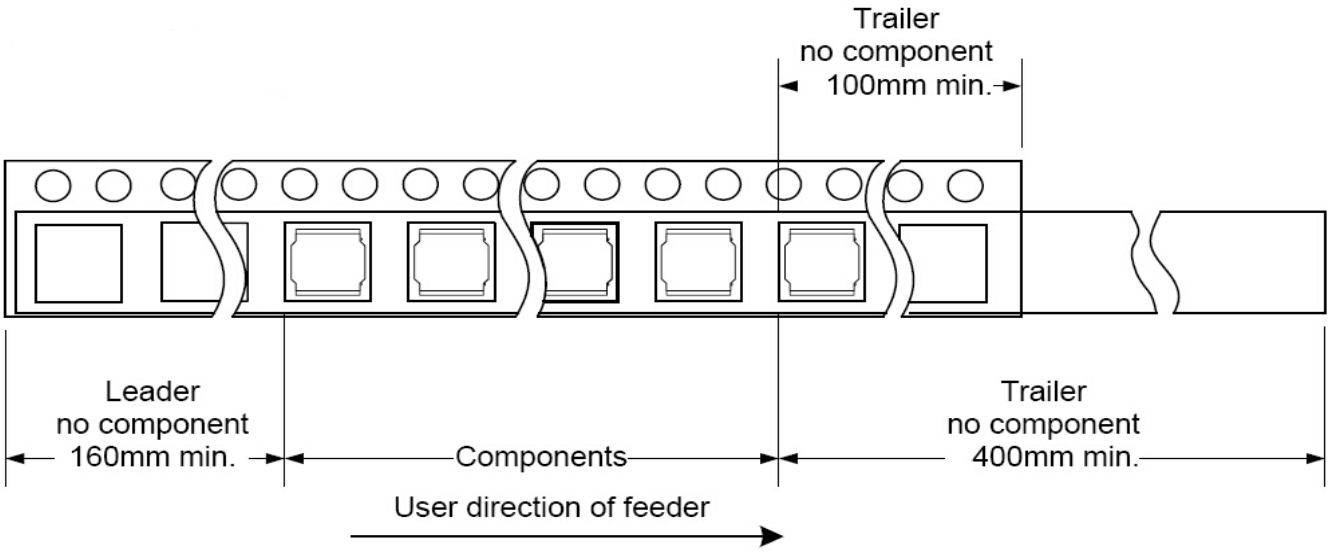
TYPE	W	A	B	C	D	E	P	K Ref	T	MPQ
YSMC0430V	12±0.3	4.3±0.1	5.10±0.1	4.75	5.5±0.1	2.1±0.1	8±0.1	2.2	0.30±0.05	2000

■ Reel Dimensions(Unit:mm)

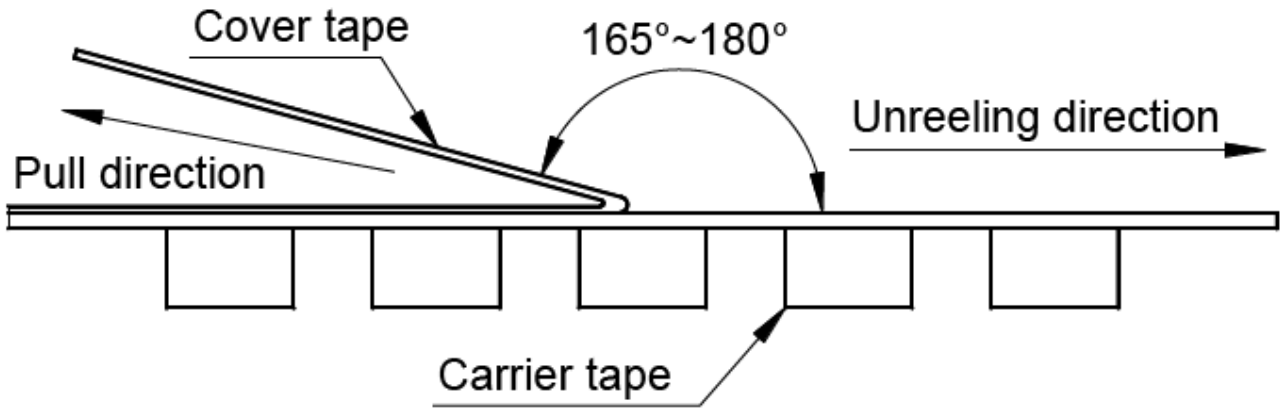


TYPE	W	W1	W2	W3	A	B	C	D
YSMC0430V	330±2.0	12.4±1.50	18.4MAX	11.9Min	13.0±0.50	21.0±0.80	2.0±0.50	100 Min

■ Direction of rolling



■ Cover tape peel off condition



Cover tape peel force shall be 0.1N to 1.3N.

Reference peel speed 300±10mm/min.