SMD Power Inductors
-YSPI1040HP 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

YSPI □□□□□□ − □□□ □

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

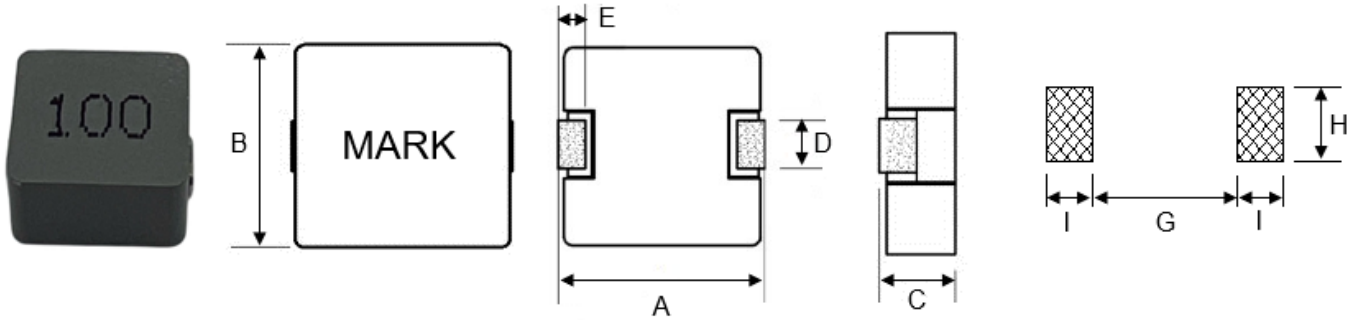
(1)： Type

(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.
YSPI1040HP	10.5±1.0	10.3±0.3	4.0	3.0±0.3	2.0±0.5	6.0	4.0	3.5

■ YSPI1040HP Series

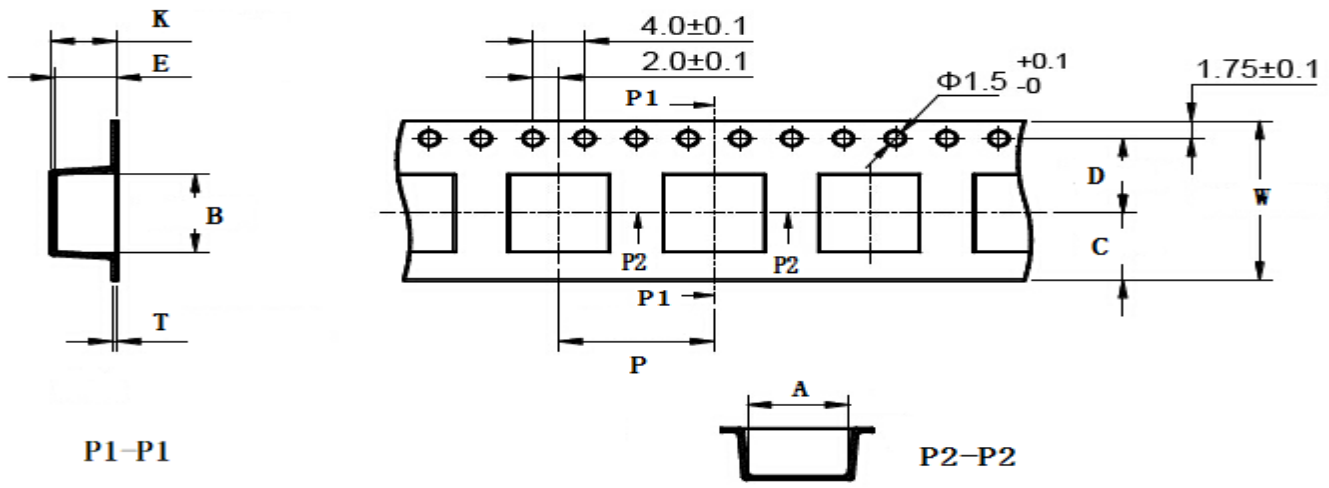
Part Number	Inductance (uH) @100KHz	DC Resistance (mΩ)		Heat Rating Current (A)	Saturation Current (A)
		Typ.	Max.		
YSPI1040HP-R15M	0.15±20%	0.47	0.55	45.0	70.0
YSPI1040HP-R22M	0.22±20%	0.55	1.00	35.0	60.0
YSPI1040HP-R33M	0.33±20%	1.10	1.30	30.0	46.0
YSPI1040HP-R47M	0.47±20%	1.10	1.30	28.0	40.0
YSPI1040HP-R68M	0.68±20%	1.60	1.90	23.0	32.0
YSPI1040HP-1R0M	1.0±20%	2.60	3.00	16.0	26.0
YSPI1040HP-1R2M	1.2±20%	4.30	5.20	15.0	24.0
YSPI1040HP-1R5M	1.5±20%	4.30	5.20	15.0	22.0
YSPI1040HP-2R2M	2.2±20%	6.60	8.80	13.0	18.0
YSPI1040HP-3R3M	3.3±20%	10.3	12.5	12.0	16.0
YSPI1040HP-4R7M	4.7±20%	17.0	20.0	10.0	14.0
YSPI1040HP-5R6M	5.6±20%	19.0	22.0	9.0	12.5
YSPI1040HP-6R8M	6.8±20%	20.5	25.0	8.5	12.0
YSPI1040HP-8R2M	8.2±20%	26.0	30.0	8.0	10.0
YSPI1040HP-100M	10±20%	25.4	30.0	7.8	8.5
YSPI1040HP-150M	15±20%	42.0	48.0	6.5	7.0
YSPI1040HP-220M	22±20%	58.0	65.0	5.2	6.0
YSPI1040HP-330M	33±20%	84.0	92.0	4.0	5.0

※ 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℃)

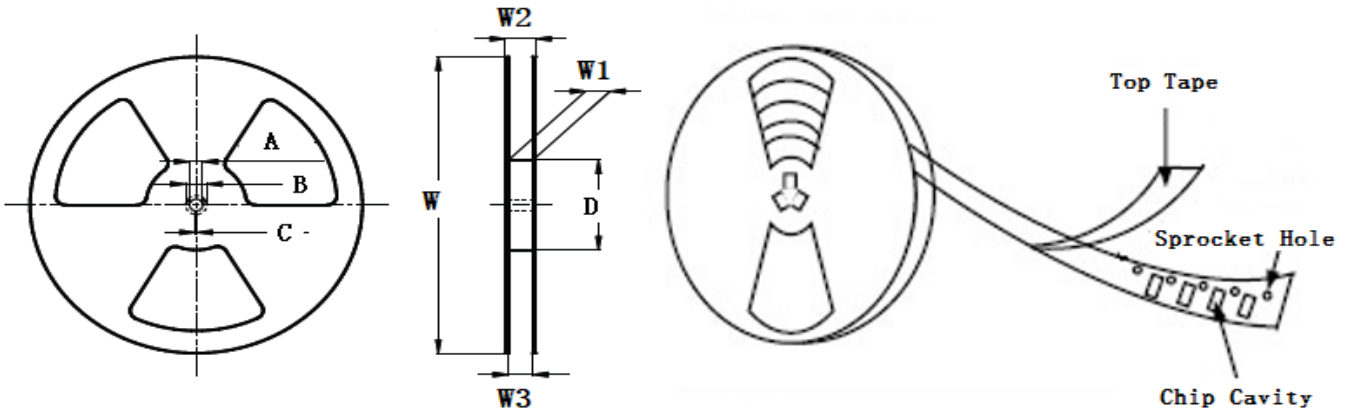
※ The rated current is the DC current value that satisfies both of current value saturation current value and temperature rise current value.

■ Taping Dimensions(Unit:mm)



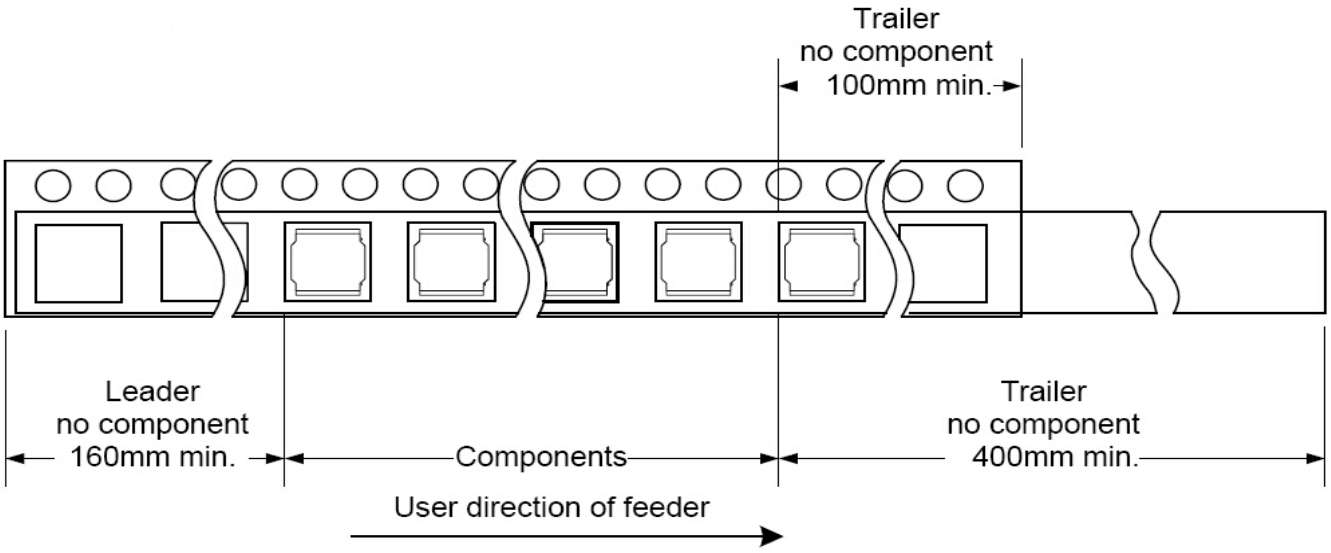
TYPE	W	A	B	C	D	E	P	K Ref	T	MPQ
YSPI1040HP	24±0.3	10.8±0.1	11.3±0.1	10.75	11.5±0.1	4.4±0.1	16±0.1	4.6	0.40±0.05	1000

■ Reel Dimensions(Unit:mm)

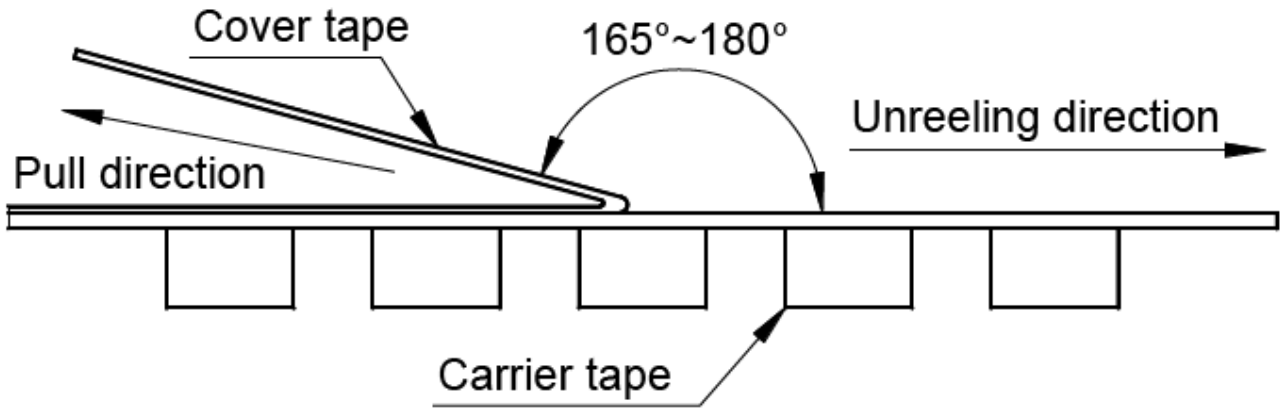


TYPE	W	W1	W2	W3	A	B	C	D
YSPI1040HP	330±2.0	24.4±1.5	30.4MAX	23.9 Min	13.0±0.50	21.0±0.80	2.0±0.50	100 Min

■ 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.