SMD Power Inductors
-YHNR4020 Series

■ Features

- Low profile construction and miniature size.
- Magnetic shielded construction.
- High current saturation.
- Operating temperature:-40℃ ~ +125℃.
- RoHS compliant

■ Applications

- For small DC/DC converter(HDD,DVC,DSC,PDA,LCD display etc.).
- Car navigation systems,telecom base stations.
- VR,AR,LED lighting.

■ Product Identification

YHNR	□□□□	−	□□□	□
(1)	(2)		(3)	(4)

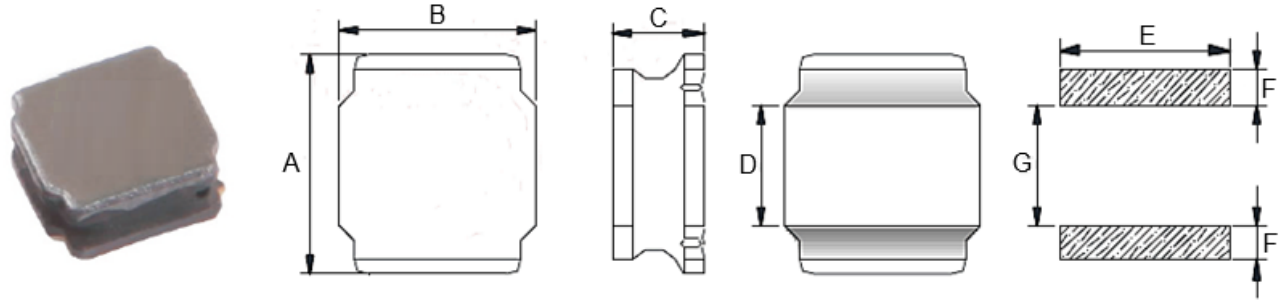
(1)： Type

(2)： Dimensions

(3)： Inductance value

(4)： Inductance Tolerance； N=±30%,M=±20%， K=±10%

■ Shapes and Dimensions (Unit： mm)



TYPE	A	B	C Max.	D	E Ref.	F Ref.	G Ref.
YHNR4020	4.0±0.2	4.0±0.2	2.00	1.90±0.3	3.70	1.10	1.90

■ YHNR4020 Series

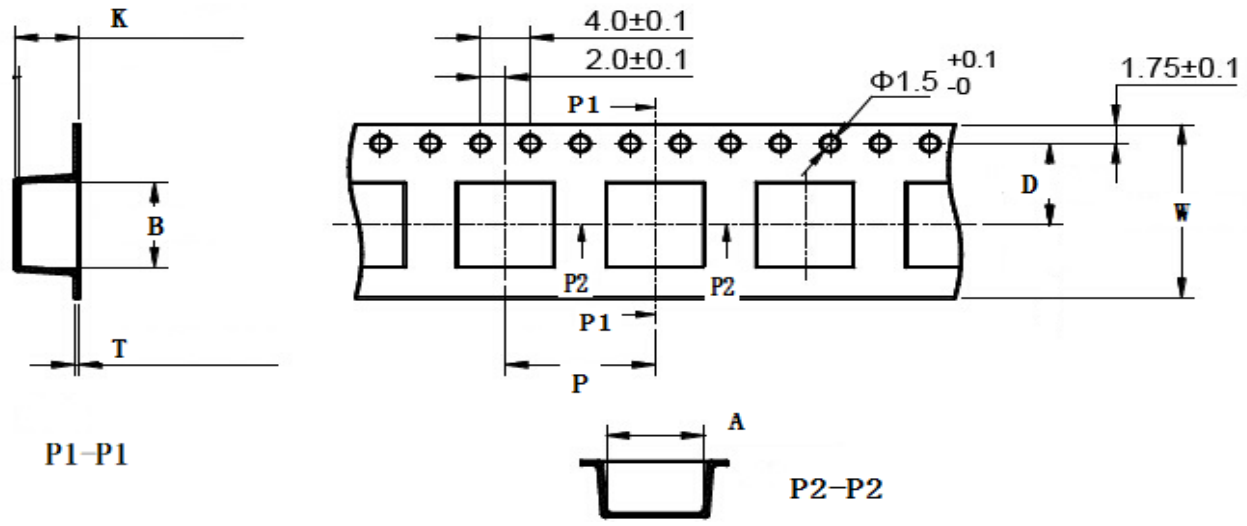
Part Number	Inductance (uH) @100KHz	DC Resistance (Ω)		Heat Rating Current (A)	Saturation Current (A)
		Typ.	Max.		
YHNR4020-R24☐	0.24	0.013	0.017	6.00	14.0
YHNR4020-R33☐	0.33	0.015	0.020	5.90	13.0
YHNR4020-R47☐	0.47	0.016	0.022	5.90	11.0
YHNR4020-R68☐	0.68	0.020	0.025	5.80	9.00
YHNR4020-1R0☐	1.00	0.023	0.028	5.80	8.70
YHNR4020-1R5☐	1.50	0.032	0.038	5.20	7.70
YHNR4020-2R2☐	2.20	0.046	0.056	4.00	6.00
YHNR4020-3R3☐	3.30	0.073	0.088	3.40	4.70
YHNR4020-3R9☐	3.90	0.078	0.100	3.00	4.10
YHNR4020-4R7☐	4.70	0.095	0.115	2.85	4.00
YHNR4020-6R8☐	6.80	0.130	0.160	2.40	3.00
YHNR4020-8R2☐	8.20	0.175	0.220	2.10	2.90
YHNR4020-100☐	10.0	0.190	0.220	2.00	2.80
YHNR4020-120☐	12.0	0.220	0.286	1.50	2.30
YHNR4020-150☐	15.0	0.305	0.400	1.00	2.10
YHNR4020-220☐	22.0	0.415	0.545	0.95	1.30
YHNR4020-330☐	33.0	0.650	0.850	0.70	1.20
YHNR4020-470☐	47.0	0.950	1.200	0.56	1.10

※ 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℃)

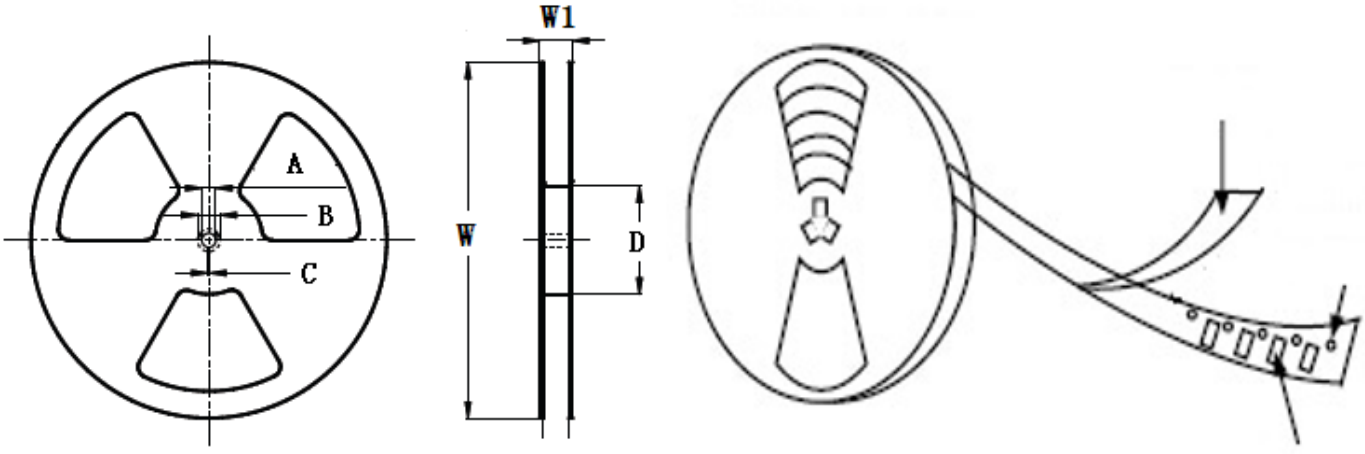
※ The rated current is the DC current value that satisfies both of current value saturation current value and temperature rise current value.

■ Taping Dimensions(Unit:mm)



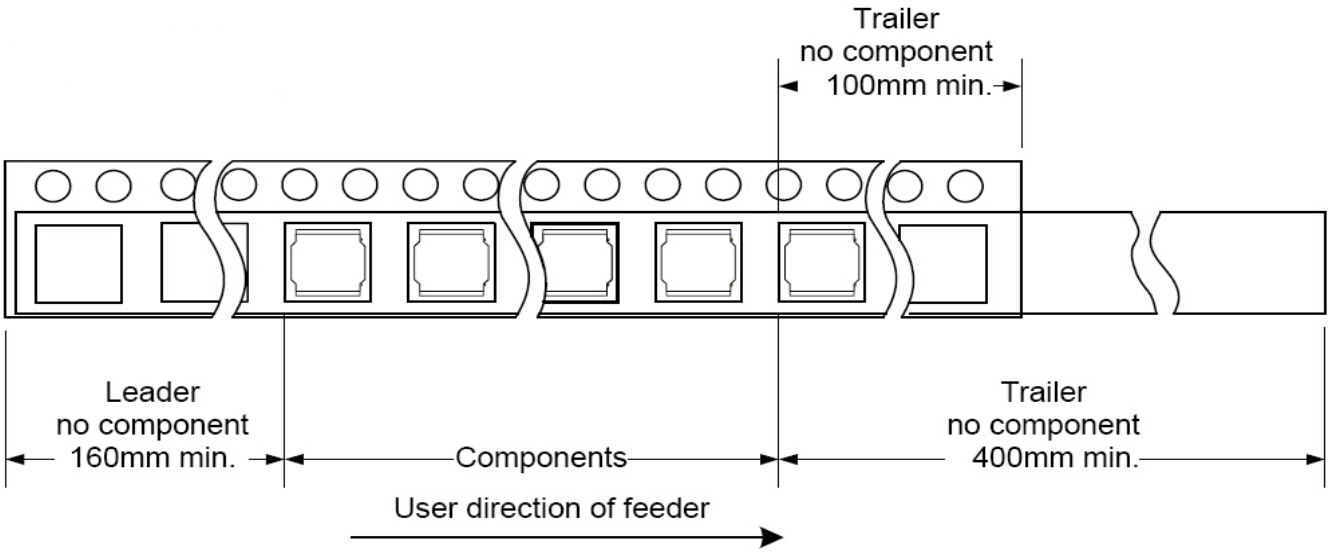
TYPE	Chip Thickness	W	A	B	D	P	K Max	T Max	MPQ
YHNR4020	2.00	12.0	4.30	4.30	5.50	8.00	2.40	0.30	3000

■ Reel Dimensions(Unit:mm)

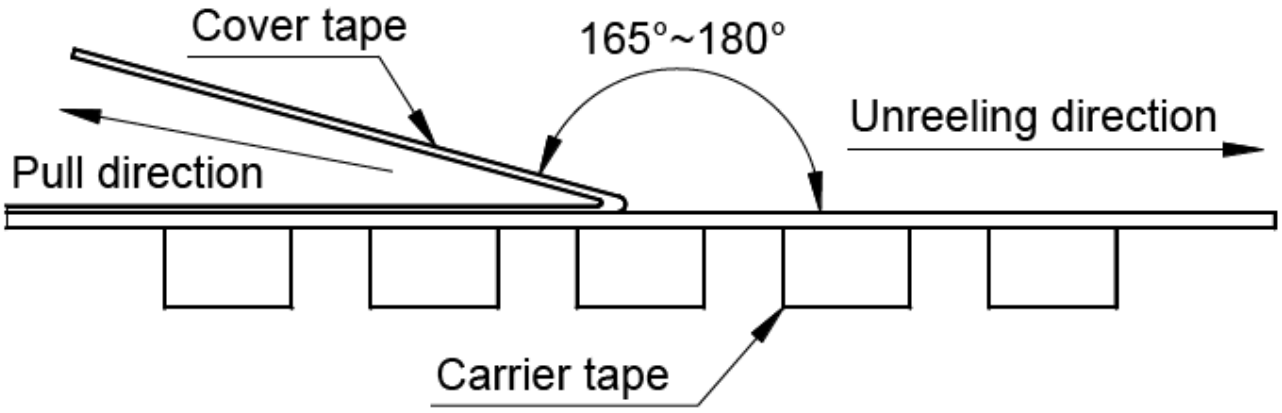


TYPE	W	W1	A	B	C	D
YHNR4020	330±2.0	12.8±1.50	13.0±0.50	21.0±0.80	2.0±0.50	100 Min

■ 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.