

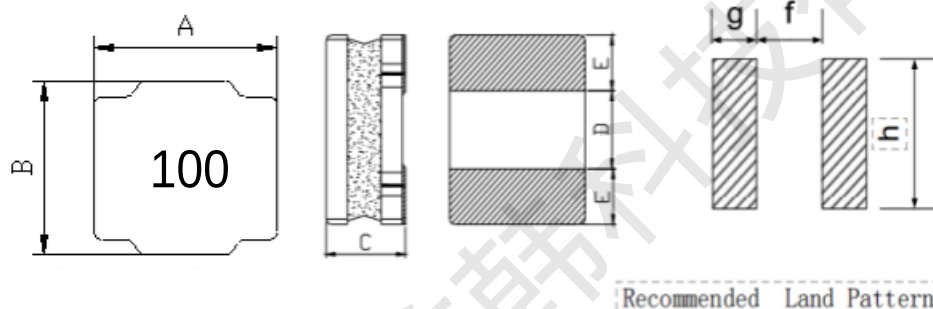
1.Features

- ①. High performance (Isat) realize by metal dust core.
- ②. Low profile: Thickness max.2.0~5.0mm.
- ③. Low loss and low resistance.
- ④. Capable of corresponding high frequency 1MHz~5MHz.
- ⑤ Ultra low buzz noise, due to composite construction.
- ⑥. The products contain no lead and also support lead-free soldering.

2.Applications area

Ideally used in NB/Desktop/server/Graphic card, LCD TV/Projector, etc as DC-DC Converter.

3. Externl Dimensions (unit: mm)



UNIT: mm

A:4.0±0.2

B:4.0±0.2

C:2.0MAX

D:2.0±0.2

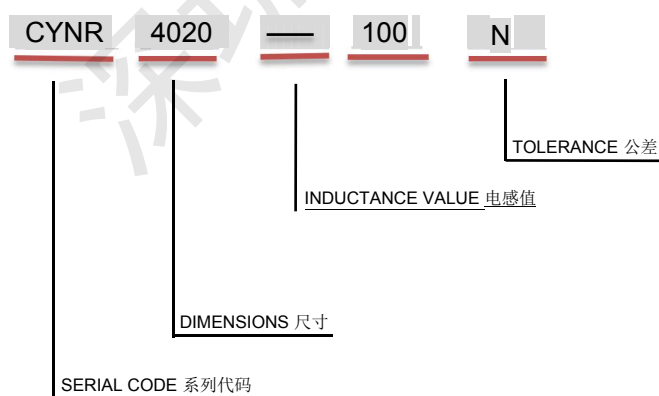
E:1.0±0.2

F:1.90Typ.

G:4.10Typ.

H:3.40Typ.

4. Product Code



Code 代码	Tolerance 公差
J	±5%
K	±10%
L	±15%
M	±20%
P	±25%
N	±30%

- 电感值Inductance Value
(1R0:1.0uH; 100: 10uH; 101:100uH)



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承 认 书

SPECIFICATION FOR APPROVAL

客 户 Customer:

产品名称 Project:

电感

规格型号 Part No:

CYNR4020-10UH

贵公司承认印 Approval signatures

料 号/Part No.	签 章/Signatures

日期 Date:

拟制/Drawn	李春风	
审核/Check	钟华华	
批准/Approved	罗孝金	

5. Electrical Characteristics

CYNR4020 Series

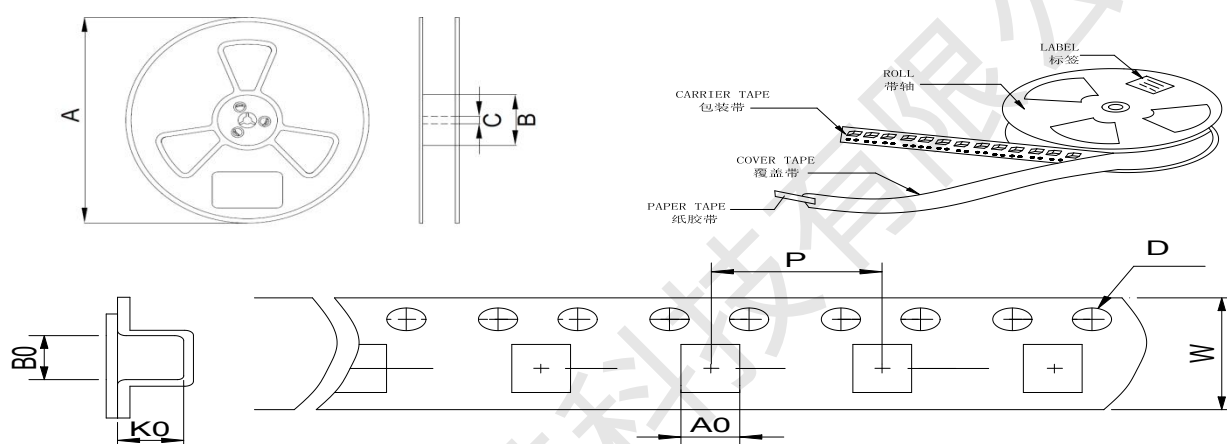
CY Part No.	Inductance (μ H)	DCR (Ω) $\pm 30\%$	Isat (A)	Irms (A)	SRF (MHz)
CYNR4020-1R0N	1.0 $\pm 30\%$	0.029	4.78	2.15	75
CYNR4020-1R2N	1.2 $\pm 30\%$	0.029	5.10	2.15	72
CYNR4020-1R5N	1.5 $\pm 30\%$	0.035	4.45	1.98	71
CYNR4020-2R2N	2.2 $\pm 30\%$	0.040	3.40	1.85	49
CYNR4020-3R3M	3.3 $\pm 20\%$	0.070	3.20	1.40	44
CYNR4020-4R7M	4.7 $\pm 20\%$	0.075	2.35	1.34	42
CYNR4020-5R6M	5.6 $\pm 20\%$	0.090	2.20	1.22	30
CYNR4020-6R8M	6.8 $\pm 20\%$	0.125	2.00	1.04	33
CYNR4020-8R2M	8.2 $\pm 20\%$	0.125	1.75	1.04	27
CYNR4020-100M	10 $\pm 20\%$	0.165	1.60	0.90	26
CYNR4020-150M	15 $\pm 20\%$	0.230	1.35	0.77	24
CYNR4020-220M	22 $\pm 20\%$	0.350	1.05	0.62	15
CYNR4020-330M	33 $\pm 20\%$	0.550	0.85	0.49	11
CYNR4020-470M	47 $\pm 20\%$	0.710	0.74	0.44	10
CYNR4020-560M	56 $\pm 20\%$	0.800	0.66	0.41	10
CYNR4020-680M	68 $\pm 20\%$	1.060	0.61	0.36	7.7
CYNR4020-820M	82 $\pm 20\%$	1.170	0.50	0.34	7.2
CYNR4020-101M	100 $\pm 20\%$	1.550	0.48	0.31	6.3

• Notes

- 1.All test data is reference to 25℃ ambient.
- 2.Idc: DC current (A) that will cause an approximate ΔT of 40℃
3. Isat : DC current (A) that will cause L0 to drop approximately 30%
- 4.Operating Temperature Range -55℃ to +125℃
- 5.The part temperature (ambient + temp rise) should not exceed 125 ℃ under worse case operating conditions. Circuit design, component. PWB trace size and thickness airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the den application.
- 6.The rated current as listde is either the saturation current or the heating current depending on which value is lower.

6.Minimum Packaging and storage

• 包装Packing

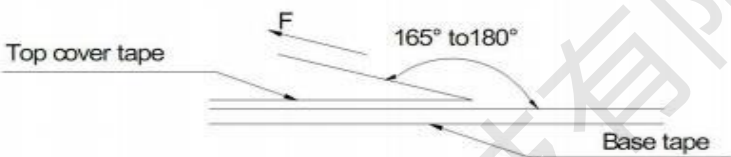


CY Type	Tape Dimension (mm)						Reel Dimension (mm)			Quantity (Pcs/Reel)
	W	A0	B0	K0	D	P	A	B	C	
CYNR252012	8	2.35	2.65	1.6	1.5	4	178	58	13	2000
CYNR3010	8	3.3	3.3	1.4	1.5	4	178	58	13	2000
CYNR3012	8	3.3	3.3	1.6	1.5	4	178	58	13	2000
CYNR3015	8	3.3	3.3	1.9	1.5	4	178	58	13	2000
CYNR4012	12	4.3	4.3	1.4	1.5	8	330	100	13	4000
CYNR4018	12	4.3	4.3	2.2	1.5	8	330	100	13	3000
CYNR4020	12	4.3	4.3	2.4	1.5	8	330	100	13	3000
CYNR4030	12	4.3	4.3	3.4	1.5	8	330	100	13	2000
CYNR5020	12	5.4	5.4	2.4	1.5	8	330	100	13	3000
CYNR5040	12	5.4	5.4	4.4	1.5	8	330	100	13	1500
CYNR6020	16	6.4	6.4	2.4	1.5	8	330	100	13	2500
CYNR6028	16	6.4	6.4	3.2	1.5	8	330	100	13	2000
CYNR6045	16	6.4	6.4	4.8	1.5	8	330	100	13	1500
CYNR8040	16	8.4	8.4	4.4	1.5	12	330	100	13	1000

• Tape Carrier Packaging:

Type	Standard Quantity (pcs/reel)	Type	Standard Quantity (pcs/reel)
CYNR201610	2000	CYNR4020	3000
CYNR252012	2000	CYNR5020	3000
CYNR3010	2000	CYNR5040	1500
CYNR3015	2000	CYNR6045	1500
CYNR4012	4000	CYNR8040	1000

• Tearing Off Force

 The force for tearing off cover tape is 15 to 60 grams in the arrow direction under the following conditions			
Room Temp. ()°C	Room Humidity (%)	Room atm (hPa)	Tearing Speed mm/min
5~35	45~85	860~1060	300

• Application Notice

Storage Conditions To maintain the solderability of terminal electrodes:

1. Temperature and humidity conditions: Less than 30°C and 70% RH.
2. Recommended products should be used within 6 months from the time of delivery.
3. The packaging material should be kept where no chlorine or sulfur exists in the air.

Transportation

1. Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
2. 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.