深圳市首韩科技有限公司
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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： CYN5040-22UH

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	

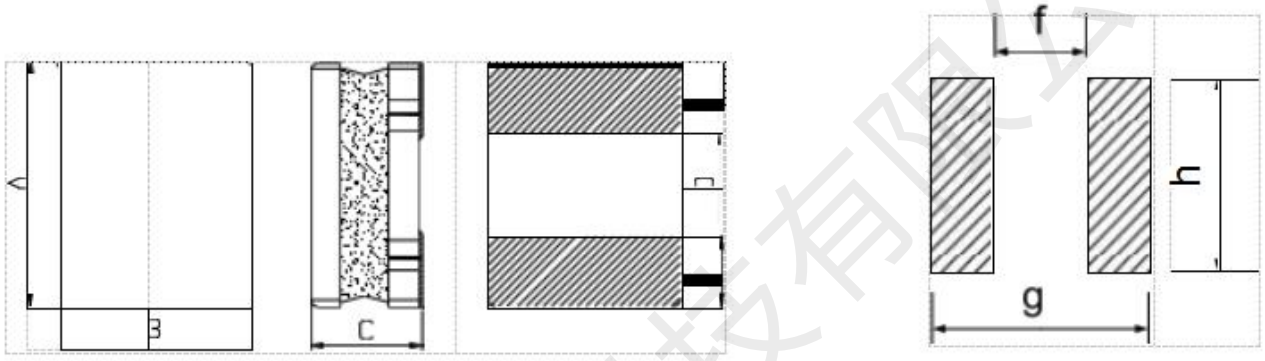
1.Features

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)



Dimensions in mm								
Model	A	B	C	D	E	f	g	h
CYN252010	2.50±0.2	2.00±0.2	1.00Max.	0.80±0.2	0.80±0.2	0.80Typ.	2.50Typ.	2.00Typ.
CYN252012	2.50±0.2	2.00±0.2	1.20Max.	0.80±0.2	0.80±0.2	0.80Typ.	2.50Typ.	2.00Typ.
CYN3010	3.00±0.2	3.00±0.2	1.00 Max.	1.50±0.2	0.75±0.2	1.50Typ.	3.10Typ.	2.70Typ.
CYN3012	3.00±0.20	3.00±0.2	1.2 0Max.	1.50±0.2	0.75±0.2	1.50Typ.	3.10Typ.	2.70Typ.
CYN3015	3.00±0.20	3.00±0.2	1.50 Max.	1.50±0.2	0.75±0.20	1.50Typ.	3.10Typ.	2.70Typ.
CYN4012	4.00±0.20	4.00±0.2	1.30Max.	2.00±0.2	1.00±0.20	1.90Typ.	4.10Typ.	3.40Typ.
CYN4018	4.00±0.20	4.00±0.2	1.80Max.	2.00±0.2	1.00±0.20	1.90Typ.	4.10Typ.	3.40Typ.
CYN4030	4.00±0.20	4.00±0.2	3.00Max.	2.00±0.2	1.00±0.20	1.90Typ.	4.10Typ.	3.40Typ.
CYN5020	5.00±0.20	5.00±0.2	2.00Max.	2.40±0.2	1.30±0.20	2.30Typ.	5.10Typ.	4.20Typ.
CYN5040	5.00±0.20	5.00±0.2	4.00Max.	2.40±0.2	1.30±0.20	2.30Typ.	5.10Typ.	4.20Typ.
CYN6045	6.00±0.20	6.00±0.2	4.50 Max.	3.20 ±0.3	1.40 ±0.30	2.80Typ.	6.20Typ.	5.70Typ.
CYN8040	8.00±0.30	8.00±0.3	4.00Max.	3.80±0.3	2.10±0.30	3.80Typ.	8.20Typ.	7.50Typ.

4. Product Code

CYN 5040 — 220 M

- SERIAL CODE 系列代码
- DIMENSIONS 尺寸
- INDUCTANCE VALUE 电感值
- TOLERANCE 公差

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

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

5. Electrical Characteristics

CYN5040 type

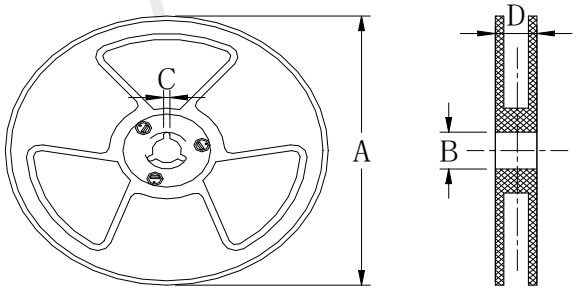
PART No.	NOMINAL INDUCTANCE (uH)	Test Freq. (kHz/v)	DCR (Ω)MAX	IDC (A)MAX	
				Isat (A) max	Irms (A) max
CYN5040-1R0N	1.0	100/1	0.013	7.35	4.9
CYN5040-1R5N	1.5	100/1	0.015	6.30	4.2
CYN5040-2R2N	2.2	100/1	0.019	4.90	3.7
CYN5040-3R3N	3.3	100/1	0.024	3.95	3.4
CYN5040-4R7M	4.7	100/1	0.030	3.50	3.0
CYN5040-5R6M	5.6	100/1	0.033	3.2	2.5
CYN5040-100M	10	100/1	0.064	2.85	2.1
CYN5040-150M	15	100/1	0.086	2.5	2.0
CYN5040-220M	22	100/1	0.129	1.8	1.4
CYN5040-330M	33	100/1	0.188	1.5	1.2
CYN5040-470M	47	100/1	0.270	1.25	1.0
CYN5040-680M	68	100/1	0.400	0.96	0.77
CYN5040-101M	100	100/1	0.560	0.82	0.66

- **Notes**

1. All test data is referenced to 25 °C ambient
2. Operating temperature range - 55 °C to + 125 °C
3. Irms (A):DC current (A) that will cause an approximate ΔT of 40 °C(reference ambient temperature is 25 °C)
4. Isat(A):DC current (A) that will cause L0 to drop approximately 30 %
5. The part temperature (ambient + temp rise) should not exceed 125 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
6. Absolute maximum voltage 30VDC

6. Minimum Packaging and storage

- 包装Packing

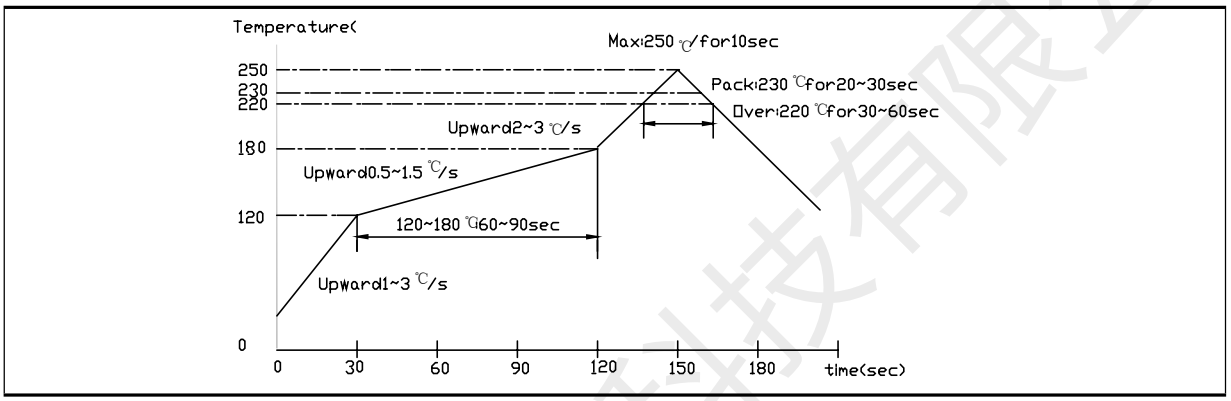


规格 / 尺寸	13"	7"
A	Φ330±2.0	Φ178±2.0
B	Φ90 ± 2.0	
C	2. 3	
D	21. 5	1000/盘

• **Tape Carrier Packaging**:

Type	Standard Quantity (pcs/reel)	Type	Standard Quantity (pcs/reel)
CYN252010	**3000**	CYN4018	**3000**
CYN252012	**3000**	CYN4030	**2000**
CYN3010	**2000**	CYN5020	**2000**
CYN3012	**2000**	CYN5040	**1500**
CYN3015	**2000**	CYN6045	**1500**
CYN4012	**3000**	CYN8040	**1000**

• **Recommended reflow soldering curve**



• **Application Notice**

Storage ConditionsTo maintain the solderability of terminal electrodes:

1. Temperature and humidity conditions: Less than 30℃ and 70% RH.
2. Recommended products should be used within 6 months form 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.