

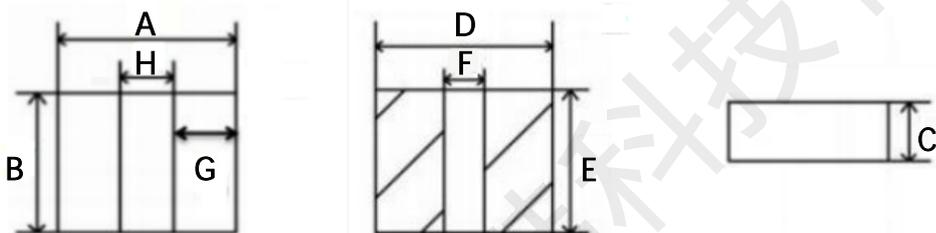
## 1.Features

- 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:2.0±0.2

B:1.6±0.2

C:1.0MAX

D:2.1

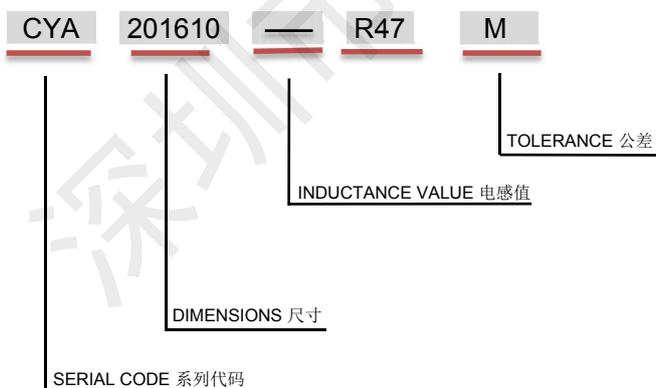
E:1.7

F:0.5

G:0.7±0.2

H:0.6±0.2

## 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:

CYA201610-0.47UH

\_\_\_\_\_

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

### CYA201610 Series

Electrical Characteristics							
C.Y PART NO	L0(uH) Inductance (uH) @ (0A) 1MHZ	Rdc (mΩ) @25°C		Heat Rating Current I <sub>rms</sub> (A)		Saturation Current I <sub>sat</sub> (A)	
		Typ.	Max.	Typical	Typical	Typical	Typical
CYA201610-R10M	0.10	7.0	12	8.5	8.0	9.0	8.4
CYA201610-R15M	0.15	8.0	14	7.6	7.0	8.7	8.0
CYA201610-R22M	0.22	11	18	6.9	6.3	8.2	7.5
CYA201610-R24M	0.24	12	19	6.8	6.2	8.0	7.4
CYA201610-R33M	0.33	17	22	5.7	5.3	7.0	6.5
CYA201610-R47M	0.47	22	25	5.5	5.0	6.3	5.5
CYA201610-R68M	0.68	25	32	4.6	4.3	5.2	4.7
CYA201610-1R0M	1.0	35	43	4.5	4.1	4.6	4.2
CYA201610-1R5M	1.5	80	100	2.6	2.3	3.2	2.9
CYA201610-2R2M	2.2	120	130	2.5	2.1	3.0	2.8
CYA201610-3R3M	3.3	140	170	1.7	1.5	2.3	2.0
CYA201610-4R7M	4.7	190	220	1.6	1.4	2.0	1.8
CYA201610-6R8M	6.8	320	350	1.7	1.5	1.7	1.5
CYA201610-100M	10.0	483	580	1.0	0.7	1.4	1.1
CYA201610-150M	15.0	800	960	0.9	0.6	1.1	0.9
CYA201610-220M	22.0	1200	1400	0.6	0.5	0.8	0.7

## • Notes

- 1.All test data is reference to 25°C ambient.
- 2.Idc: DC current (A) that will cause an approximate  $\Delta T$  of 40°C
3. Isat : DC current (A) that will cause L0 to drop approximately 30%
- 4.Operating Temperature Range -55°C to +125°C
- 5.The part temperature (ambient + temp rise ) should not exceed 125 °C 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

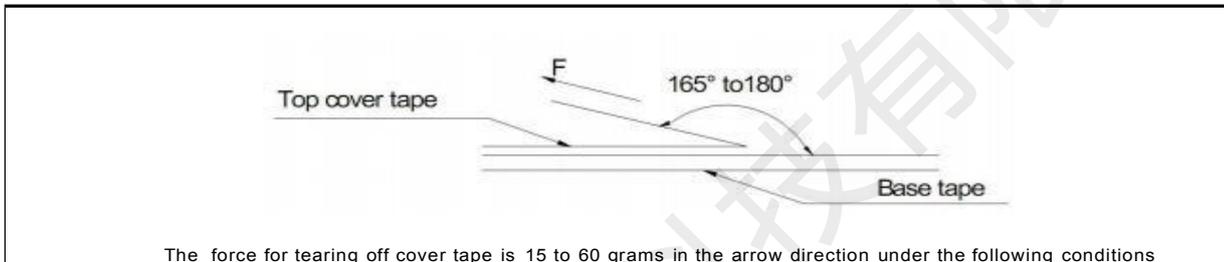
Tape Dimension												
Type	Reel Dimensions (mm)				Tape Dimensions (mm)							
	A	N	W	C	W	P	P0	A0	B0	H	T	
CYA201610	178 +2/-0	58 +2/-0	12.4 +2/-0	13.2 ±0.2	8.0±0.3	4±0.1	4±0.1	1.8±0.1	2.2±0.1	1.1±0.05	0.35±0.05	
CYA252012	178 +2/-0	58 +2/-0	12.4 +2/-0	13.2 ±0.2	8.0±0.3	4±0.1	4±0.1	2.3±0.1	2.8±0.1	1.3±0.05	0.35±0.05	
CYA0320	330 +2/-0	100 +2/-0	12.4 +2/-0	13.2 ±0.2	12±0.3	8±0.1	4±0.1	3.6±0.1	3.9±0.1	2.3±0.05	0.35±0.05	
CYA0420	330 +2/-0	100 +2/-0	12.4 +2/-0	13.2 ±0.2	12±0.3	8±0.1	4±0.1	4.4±0.1	4.9±0.1	2.3±0.05	0.35±0.05	
CYA0530	330 +2/-0	100 +2/-0	12.4 +2/-0	13.2 ±0.2	12±0.3	8±0.1	4±0.1	5.4±0.1	5.9±0.1	3.3±0.05	0.35±0.05	
CYA0630	330 +2/-0	100 +2/-0	16.4 +2/-0	13.2 ±0.2	16±0.3	12±0.1	4±0.1	6.9±0.1	7.5±0.1	3.3±0.05	0.35±0.05	
CYA0650	330 +2/-0	100 +2/-0	16.4 +2/-0	13.2 ±0.2	16±0.3	12±0.1	4±0.1	6.9±0.1	7.5±0.1	5.2±0.1	0.4±0.05	
CYA1040	330 +2/-0	100 +2/-0	24.4 +2/-0	13.2 ±0.2	24±0.3	16±0.1	4±0.1	10.4±0.1	11.5±0.1	4.3±0.1	0.4±0.05	
CYA1250	330 +2/-0	100 +2/-0	24.4 +2/-0	13.2 ±0.2	24±0.3	16±0.1	4±0.1	13.2±0.1	14.4±0.1	5.3±0.1	0.4±0.05	
CYA1260	330 +2/-0	100 +2/-0	24.4 +2/-0	13.2 ±0.2	24±0.3	16±0.1	4±0.1	13.2±0.1	14.4±0.1	6.3±0.1	0.5±0.05	



## • Tape Carrier Packaging:

Type	Standard Quantity (pcs/reel)	Type	Standard Quantity (pcs/reel)
CYA252012	3000	CYA0650	1000
CYA0320	2000	CYA1040	1000
CYA0420	3000	CYA1250	500
CYA0530	2000	CYA1265	500
CYA0630	1000	CYA1770	250

## • 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 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.