



ISO9001 & ISO14001 & TS16949 **CHILISIN ELECTRONICS CORP.**

**RoHS & Halogen Free & REACH Compliance.**

Form No.: QF-1274

Edition: 2

## SPECIFICATION FOR APPROVAL

Customer : 研華

Customer P/N:

Drawing No :

Quantity : 0 Pcs. Date : 2016/06/20

Chilisin P/N : CUW11T-900M-N

### SPECIFICATION ACCEPTED BY:

COMPONENT  
ENGINEER

ELECTRICAL  
ENGINEER

MECHANICAL  
ENGINEER

APPROVED

REJECTED

#### 奇力新電子股份有限公司

Chilisin Electronics Corp  
No. 29, Alley 301, Tehhsin Rd.,  
Hukou, Hsinchu 303, Taiwan  
TEL : +886-3- 599-2646  
FAX : +886-3- 599-9176  
E-mail : sales@chilisin.com.tw  
http : //www.chilisin.com.tw

#### 東莞奇力新電子有限公司

Chilisin Electronics (Dongguan) Co., Ltd.  
No. 78, Puxing Rd., Yuliangwei Administration  
Area, Qingxi Town, Dongguan City,  
Guangdong, China  
TEL : +86-769-8773-0251~3  
FAX : +86-769-8773-0232  
E-mail : cect@chilisin.com.tw

#### 奇力新電子(河南)有限公司

Chilisin Electronics (Henan) Co., Ltd.  
XiuWu Xian, industry gathering area  
JiaoZuo, Henan China  
Postal Code:454350  
TEL:+86-391-717-0682  
FAX:+86-391-717-0666

#### 蘇州奇益新電子有限公司

SUZHOU QI YIXIN Electronics Co., Ltd.  
No.143,Song Shan Rd., Suzhou New District,  
Suzhou, China  
Postal Code:215129  
TEL:+86-512-6841-2350  
FAX:+86-512-6841-2356

Drawn by  
林帛穎 audrey.lin

Checked by  
溫美玲 ling

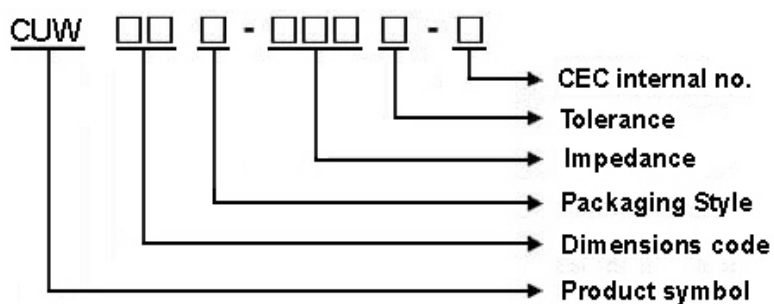
Approved by  
陳瑞揚 ryan.chen



## CUW11T Series Specification

**1 Scope:** This specification applies to CUW FILTER

**2 Part Numbering:**



**3 Rating:**

Operating Temperature:  $-40^{\circ}\text{C} \sim 105^{\circ}\text{C}$  (Including self - temperature rise)

Storage Temperature:  $20^{\circ}\text{C} \sim 25^{\circ}\text{C}$  R.H. 65% (In Tape & Reel Condition)

**4 Marking:**

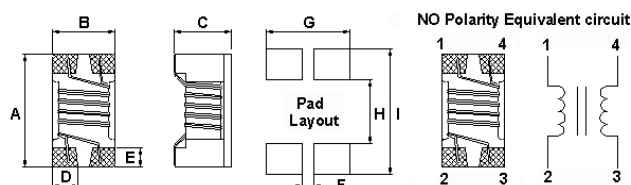
No Marking

**5 Standard Testing Condition**

	Unless otherwise specified	In case of doubt
Temperature	Ordinary Temperature(15 to 35°C)	20 to 30°C
Humidity	Ordinary Humidity(25 to 85% RH)	50 to 80 %RH

## CUW11T Series Specification

### 6 Configuration and Dimensions:



TYPE	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm
CUW11	1.25±0.2	1.0±0.2	0.8±0.1	0.32	0.33	0.36	1.0	0.59	1.75

### 7 Electrical Characteristics:

Part No.	Z (Ω)	RDC (Ω)Max.	IDC (mA)	Rated Voltage (Vdc)	Insulation Resistance (MΩ)(min)	Tolerance (±%)	Test Freq. (MHz)
CUW11T-250□-N	25	0.3	400	20	10	30	100
CUW11T-600□-N	60	0.4	300	20	10	20	100
CUW11T-670□-N	67	0.25	300	50	10	20	100
CUW11T-900□-N	90	0.3	250	50	10	20	100
CUW11T-121□-N	120	0.4	200	50	10	20	100
CUW11T-161□-N	160	0.43	160	50	10	20	100
CUW11T-201□-N	200	0.8	120	50	10	20	100
CUW11T-331□-N	330	1.3	100	50	10	25	100

**NOTE:** □-tolerance M=±20% / Y=±25% / T=±30%

1. Operating temperature range - 40 °C ~ 105 °C (Including self - temperature rise)

2. RDC: SINGLE WIRE TEST VALUE

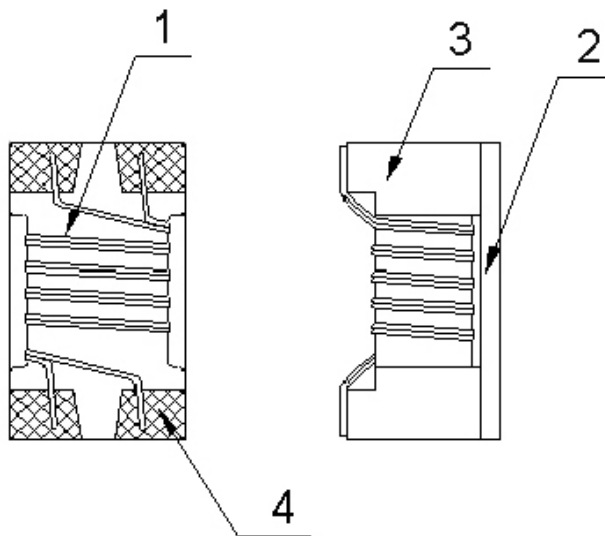
3. IDC for Inductance drop 10% from its value without current.

"-N" FOR COMPLETELY LEAD FREE TYPE (INCLUDING FERRITE BODY & SOLDER)

## CUW11T Series Specification

### 8 CUW11T Series

#### 8.1 Construction:



#### 8.2 Material List:

No	Part	Material	Supplies
1	WIRE	Grade 180	ELEKTRISOLA
2	Cover sheet	FERRITE	CHILISIN
3	CORE	FERRITE	CHILISIN
4	TERMINAL	Ag/Ni/Sn	



## CUW11T Series Specification

### 9 Common Mode Choke / RELIABILITY TEST

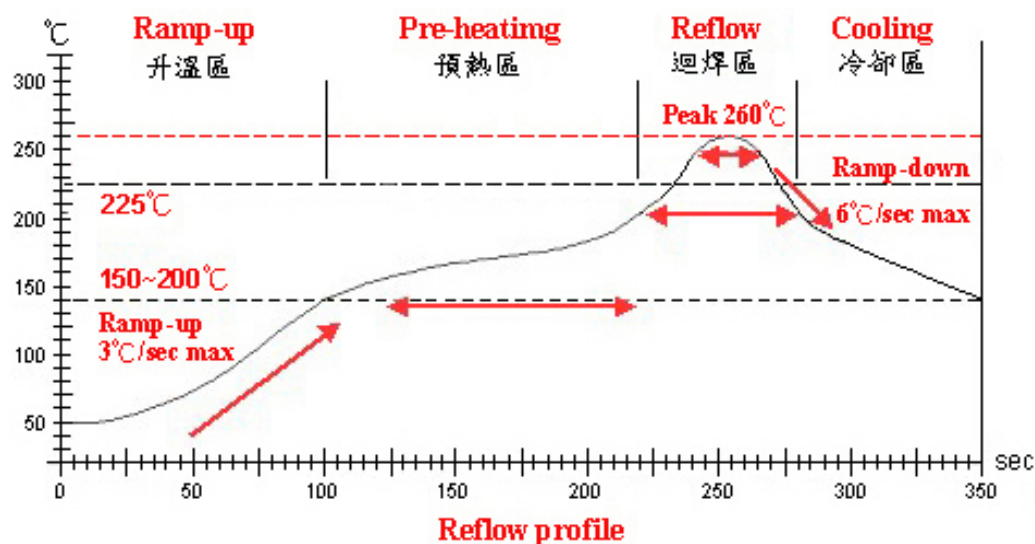
#### 1-1.Environmental Performance

No	Item	Specification	Test Method															
1-1-1	Temperature Cycle	Appearance: No Damage Impedance: within±20% of initial value	One cycle: <table><tr><th>Step</th><th>Temperature (°C)</th><th>Time (min)</th></tr><tr><td>1</td><td>-40±3</td><td>30</td></tr><tr><td>2</td><td>25±2</td><td>3</td></tr><tr><td>3</td><td>105±3</td><td>30</td></tr><tr><td>4</td><td>25±2</td><td>3</td></tr></table> Total: 5 cycles Measured After Exposure in The Room Condition For 1hrs	Step	Temperature (°C)	Time (min)	1	-40±3	30	2	25±2	3	3	105±3	30	4	25±2	3
Step	Temperature (°C)		Time (min)															
1	-40±3		30															
2	25±2		3															
3	105±3		30															
4	25±2	3																
1-1-2	Humidity Resistance	Temperature: 40±2°C Relative Humidity: 90 ~ 95% Time: 100hrs Measured After Exposure In The Room Condition For 1hrs																
1-1-3	High Temperature Resistance	Temperature: 85±3°C Time: 50Hrs Measured After Exposure In The Room Condition For 1Hrs																
1-1-4	Low Temperature Resistance	Temperature: -40±3°C Time: 50Hrs Measured After Exposure In The Room Condition For 1Hrs																
1-1-5	High Temperature Load Life	There should be no evidence of short or open circle	Temperature: 85±3°C Load: Allowed DC Current Time: 500Hrs															
1-1-6	Humidity Load Life		Temperature: 40±2°C Relative Humidity: 90~95% Load: Allowed DC Current Time: 500Hrs															

#### 1-2.Mechanical Performance

No	Item	Specification	Test Method
1-2-1	Resistance To Soldering Heat	Appearance: No Damage	1. The device should be reflow soldered on PCB (peak $260^{\circ}\text{C}\pm 5^{\circ}\text{C}$ for 10 seconds) 2. Solder Composition: Sn/Ag3.0/Cu0.5 3. Test time: 6 minutes
1-2-2	Solder ability	The electrodes shall be at least 95% covered with new solder coating	1. Pre-Heating: $150^{\circ}\text{C}$ , 1min. 2. Solder Composition: Sn/Ag3.0/Cu0.5 3. Solder Temperature: $245\pm 5^{\circ}\text{C}$ . 4. Immersion Time: $4\pm 1$ sec.
1-2-3	Common Adhesion (Push Test)	1 Lbs. For CUW11/MCF11 2 Lbs. For other	The device should be reflow soldered ( $245\pm 5^{\circ}\text{C}$ For 10 seconds) to a tinned copper substrate. A force gauge should be applied to the side of the component. The device must withstand a minimum force of 2 pounds without a failure of the termination attached to component

## CUW11T Series Specification



Lead-Free(LF) 標準溫度分析範圍

Refer to J-STD-020C

管制項目 Item.	升温區 Ramp-up	預熱區 Pre-heating	迴焊區 Reflow	Peak Temp	冷卻區 Cooling
溫度範圍 Temp.scope	R.T. ~ 150°C	150°C ~ 200°C	225°C	260±5°C	Peak Temp. ~ 150°C
實際時間 Time result	—	60 ~ 180 sec	20 ~ 60 sec	5 ~ 10 sec	—

NOTE :

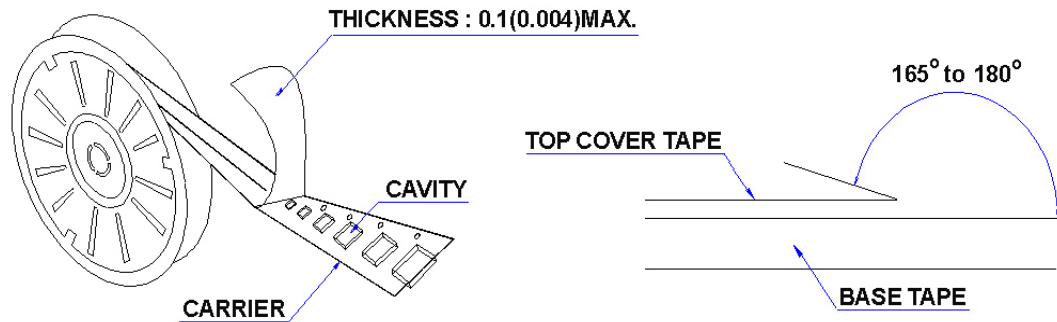
1. Re-flow possible times : within 2 times
2. Nitrogen adopted is recommended while in re-flow

## CUW11T Series Specification

### 10 Packaging:

#### 10.1 Packaging -Cover Tape

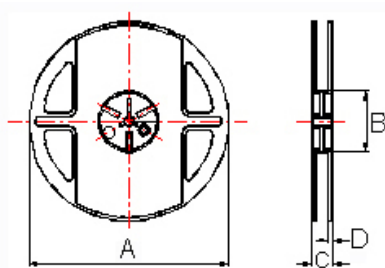
The force for tearing off cover tape is 10 to 100 grams in the arrow direction.



#### 10.2 Packaging Quantity

TYPE	PCS/REEL
CUW11	2000

#### 10.3 Reel Dimensions



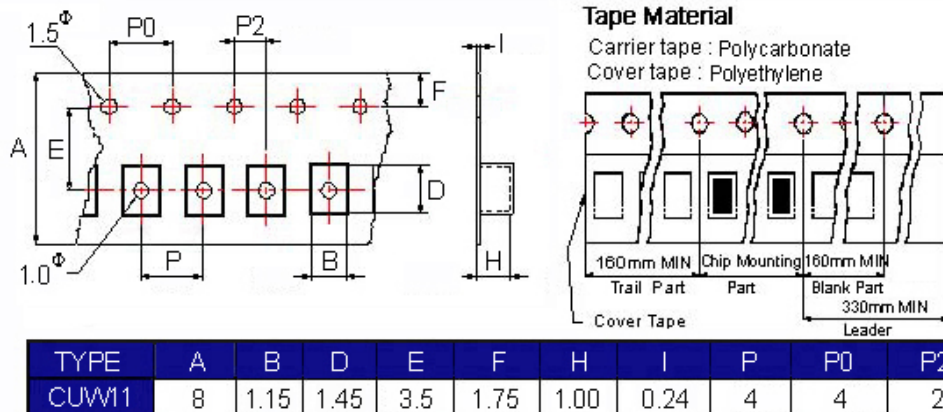
Reel Dimensions : m/m

TYPE	A	B	C	D
CUW11	178	60	12	1.5

## CUW11T Series Specification

### 10 Packaging:

#### 10.4 Tape Dimensions in mm



### 11 Recommended Land Pattern:



### 12 Note:

- Please make sure that your product has been evaluated and confirmed against your specifications when our product is mounted to your product.
- Do not knock nor drop.
- All the items and parameters in this product specification have been prescribed on the premise that our product is used for the purpose, under the condition and in the environment agreed upon between you and us. You are requested not to use our product deviating from such agreement.
- Please keep the distance between transformer/coil and other components (refer to the standard IEC 950)
- The moisture sensitivity level (MSL) of products is classified as level 1.



## CUW11T Series Specification

### 13 Graph:

