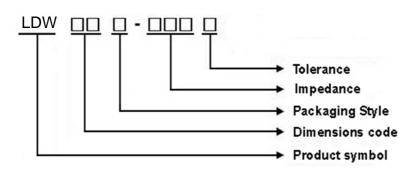


**1 Scope:** This specification applies to LDW11T FILTER

### 2 Part Numbering:



### 3 Rating:

Operating Temperature: -4.0 °C  $\sim 1.0.5$  °C (Including self - temperature rise)

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

### 4 Marking:

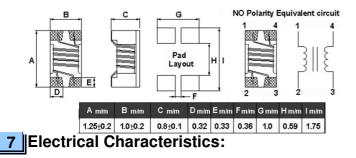
No Marking

### 5 Standard Testing Condition

Unless otherwise specified In case		In case of doubt
Temperature	Ordinary Temperature(15 to $35^\circ$ C)	<b>20 to 30</b> °C
Humidity	Ordinary Humidity(25 to 85% RH)	50 to 80 %RH



### 6 Configuration and Dimensions:



Part No.	Ζ (Ω)	RDC (Ω)Max.	IDC (mA)	Rated Voltage (Vdc)	Insulation Resistance (MΩ)(min)	Tolerance (±%)	Test Freq. (MHz)
LDW11T-250M	25	0.3	400	20	10	30	100
LDW11T-600M	60	0.4	300	20	10	20	100
LDW11T-670M	67	0.25	300	50	10	20	100
LDW11T-900M	90	0.3	250	50	10	20	100
LDW11T-121M	120	0.4	200	50	10	20	100
LDW11T-161M	160	0.43	160	50	10	20	100
LDW11T-201M	200	0.8	120	50	10	20	100
LDW11T-331M	330	1.3	100	50	10	25	100

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

1.Operating temperature range  $-~4~0~\%\sim1~0~5~\%$  (Including self - temperature rise)

2.RDC: SINGLE WIRE TEST VALUE

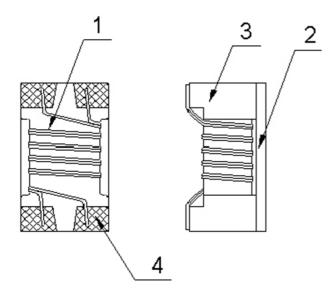
3.IDC for Inductance drop 10% from its value without current.

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

2/8



### 8 LDW11T 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	

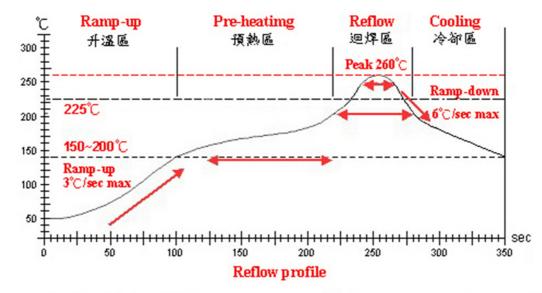


# 9 Common Mode Choke / RELIABILITY TEST

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

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 $260^{\circ}C \pm 5^{\circ}C$ 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	1. Pre-Heating: 150℃,1min.
		at least 95% covered	2. Solder Composition: Sn/Ag3.0/Cu0.5
		with new solder coating	3. Solder Temperature: 245±5°C.
			4. Immersion Time: 4±1 sec.
1-2-3	Commponent Adhesion	1 Lbs. For CUW11/MCF11	The device should be reflow soldered (245 $\pm$ 5 $^{\circ}$ C For
	(Push Test)	2 Lbs. For other	10 seconds) to a tinned copper substrate. A force guauge
			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





#### Lead-Free(LF) 標準溫度分析範圍

Refer to J-STD-020C

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

NOTE :

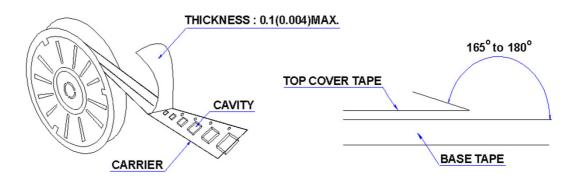
- 1. Re-flow possible times : within 2 times
- 2. Nitrogen adopted is recommended while in re-flow



### 10 Packaging:

#### 10.1 Packaging -Cover Tape

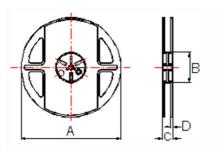
The force for tearing off cover tape is 10 to 100 grams in the arrow direction.



### **10.2 Packaging Quantity**

TYPE	PCS/REEL
LDW11T	2000

#### **10.3 Reel Dimensions**



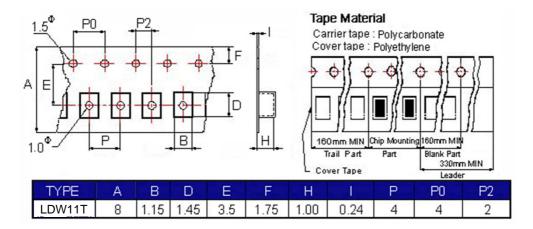
Reel Dime	ension	s : m/i	m	
			-	

TYPE	A	В	С	D
LDW11T	178	60	12	1.5

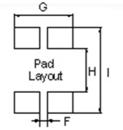


## 10 Packaging:

#### 10.4 Tape Dimensions in mm



#### 11 Recommended Land Pattern:



Dimensions in mm						
TYPE	F(in/mm)	G(in/mm)	H(in/mm)	l(in/mm)		
LDW11T	0.014/0.36	0.039/1.0	0.023/0.59	0.069/1.75		

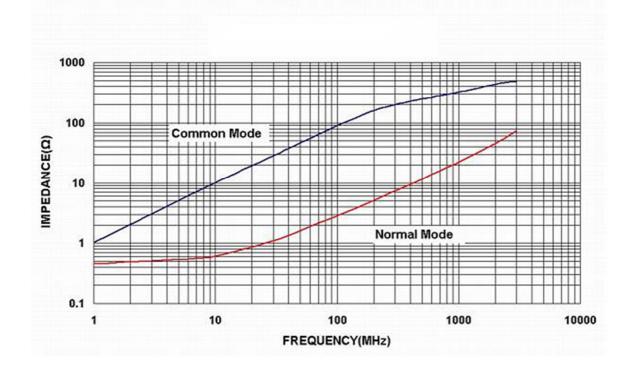
### 12 Note:

- 1. Please make sure that your product has been evaluated and confirmed against your specifications when our product is mounted to your product.
- 2. Do not knock nor drop.
- 3. 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.
- 4. Please keep the distance between transformer/coil and other components (refer to the standard IEC 950)
- 5. The moisture sensitivity level (MSL) of products is classified as level 1.



# LDW11T Series

## 13 Graph:



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