



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

DATE 09/Nov/2022 REVISION NO. A

PART NO. AHCI120611T Series

DRAWN NO. 220720-EN01

Signature

Approved by	Checked by	Drawn by
		

今展科技股份有限公司

ARLITECH ELECTRONIC CORP.

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RoHS+HF

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PRODUCT IDENTIFICATION

AHCI -

1 2 3 4 5 6

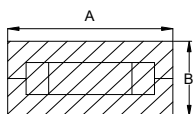
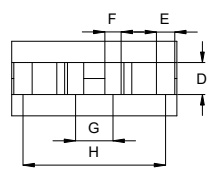
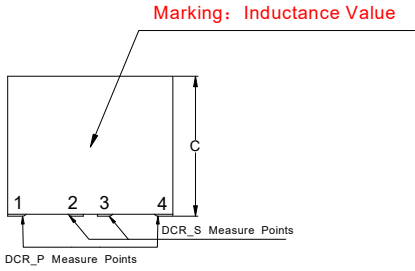
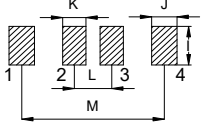
1. Product Series
2. Dimension : Length*Width*High
3. Type : Type Code
4. Indcutance : R15=0.15uH
5. Tolerance : K=±10%;L=±15%;M=±20%
6. Package : T= Taping reel ;V= Vacuum Packing

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SHAPE & DIMENSION (UNIT:mm)

A	11.7±0.3
B	5.7+0.4/-0.3
C	10.7+0.4/-0.3
D	2.45±0.3
E	1.3±0.3
F	1.15±0.3
G	2.65±0.5
H	10.1±0.5
I	2.95
J	1.8
K	1.65
L	2.65
M	10.1

※This product applies to Consumer Electronics only.
 If needs to be used in high risk applications, please contact with our sales department .

GENERAL SPECIFICATION	
Electrical specifications :	at 20~25°C
Operation Temperature :	-40~+125°C (Including self-temperature rise)
※The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.	
Storage Condition :	+25°C ±10°C ,Humidity 40~70% RH

NOTE:

- ※Test Instrument : LCR METER(Chroma3250,Test1790), BIAS CURRENT SOURCE(Chroma1320,Chroma1320S)
- 2*Lk: Two times of leakage inductance(L(1-2)@3,4 short).
- ※Isat : For Inductance drop approximately 20% from its value without current.
- ※Irms : Typical Heat Rating D.C current would cause an approximately ΔT of 40°C(Ta=25°C)

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SERIES SPECIFICATION									
<p style="color: blue; font-weight: bold; margin: 0;">◆ AHC120611T Series Specification @25°C :</p>									
Part Number	Test Freq. (KHz)	L (nH) ±15%	2*Lk (nH) ±20%	I _{rms} (A)		I _{sat} (A)		RDC(mΩ) ±10%	
				1-4	2-3	25°C	100°C	1-4	2-3
AHC120611T-R10LT	100	105	10	77	45	125	106	0.125	0.37
AHC120611T-R12LT	100	120	10	77	45	102	87	0.125	0.37
AHC120611T-R15LT	100	150	10	77	45	84	71	0.125	0.37
AHC120611T-R17LT	100	170	10	77	45	70	60	0.125	0.37
AHC120611T-R20LT	100	200	10	77	45	58	50	0.125	0.37

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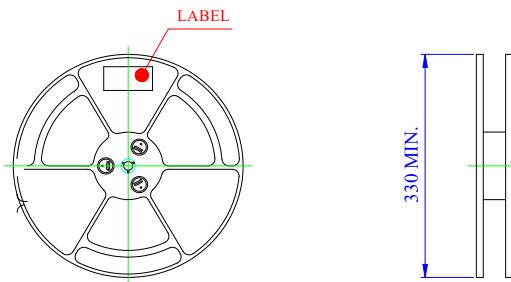
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PACKAGING

Reel dimensions

相关尺寸依据EIA-481-D规范管理

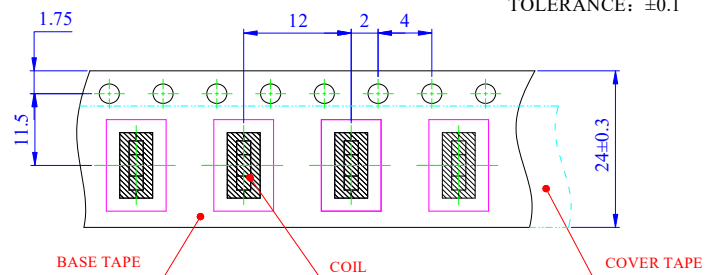
UNIT: mm



Tape dimensions

UNIT: mm

TOLERANCE: ± 0.1



Packaging

Quantity: 400 pcs/reel

4 reels/carton

1600pcs/carton

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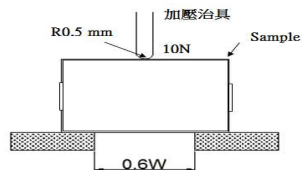
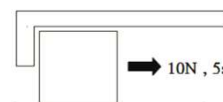
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RELIABILITY TEST		
MECHANICAL RELIABILITY		
Test Items	Test Conditions	Criteria
Adhesion strength	<p>A static load using a R0.5 pressing tool with 10N shall be applied to the body of the specimen in the direction of the arrow and shall be hold for 10s,measure after removing pressure.</p> <div style="text-align: center;">  </div>	change from an initial value L: within±10%
Terminal strength	<p>Add static load 10N to inductor through hole of test board for 5±2 sec.</p> <div style="text-align: center;">  </div>	no detachment of terminal pin and no breakage of wire.
Vibration	<p>Frequency: 10~55~10Hz Amplitude: 1.5mm Sweep time: 2 cycle Test Directions: X,Y,Z Test Time: 2 hours each direction</p>	change from an initial value L: within±10%
Drop	<p>Drop specimen three times on concrete floor from a height of 1 meter which mounted on test board.</p>	change from an initial value L: within±10%

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RELIABILITY TEST		
ENDURANCE RELIABILITY		
Test Items	Test Conditions	Criteria
Low temperature storage	Placed at -40°C for 500 hours, then measured at room ambient temperature after placing 24 hours.	change from an initial value L: within±10%
High temperature storage	Placed at +125°C for 500 hours, then measured at room ambient temperature after placing 24 hours.	change from an initial value L: within±10%
Thermal shock	Condition for 1 cycle: -40°C, 30min. ~ +125°C, 30min. Number of cycles: 100	change from an initial value L: within±10%
Humidity resistance	Placed at 90 to 95%RH, +60±2°C for 500 hours, then measured at room ambient temperature after placing 24 hours.	change from an initial value L: within±10%
High temperature dynamic operation test	Placed at +85°C for 500 hours, then measured at room ambient temperature with current test after placing 24 hours.	Inductance shall be within ±10% of the initial value. Appearance: No damage
Solderability test	Terminals shall be immersed for 5 to 10 seconds in flux at room temperature. Dip sample into solder bath containing molten soldr at 245±3°C for 3±0.5 seconds	New solder shall cover 90% minimum of the surface immersed.

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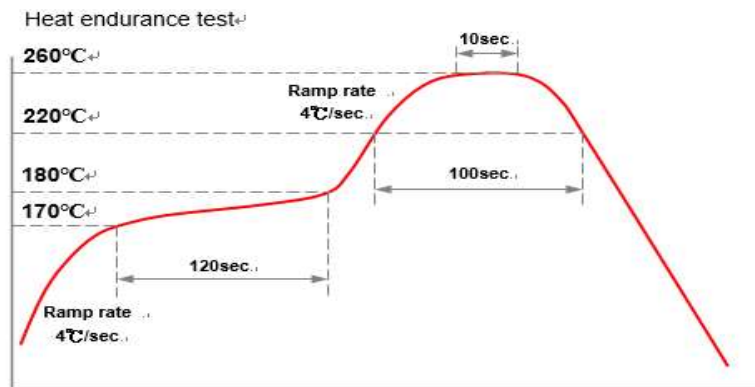
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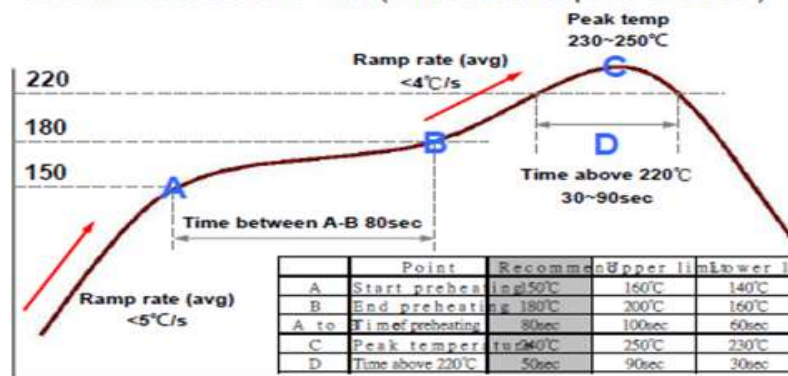
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REFLOW-PROFILE



- Ⓢ The test should be made under the conditions according to the chart, after the test it is kept for 2 hours under the normal temperature and humidity.
- Ⓢ The reflow test can be done twice, but the interval should be more than one hour under the normal conditions.
- Ⓢ The reflow test conditions are based on the testing instruments available in

Recommended Reflow Profile (for EOC Solder paste S70G-HF)



- Ⓢ The reflow condition recommended above is according to the machine used by our company. Big differences will arise as a result of the type of machine, reflow conditions, method, etc used. Hence, before setting up your reflow conditions, please confirm with the above.

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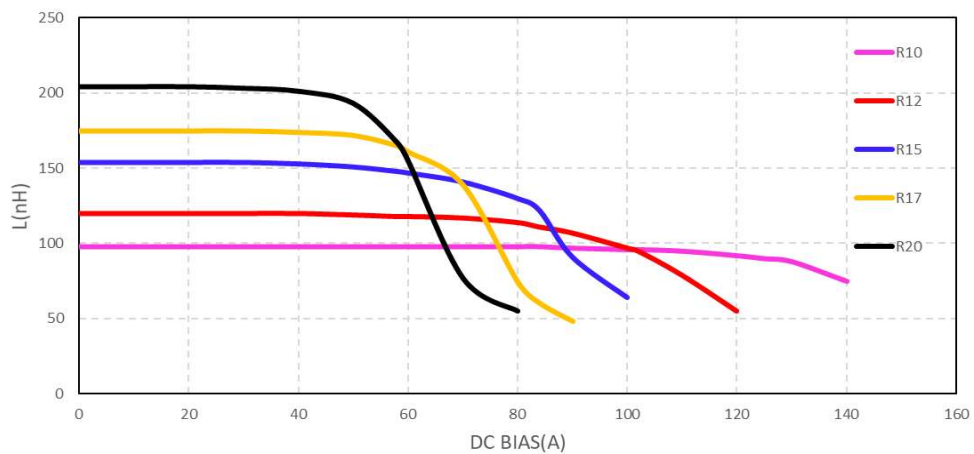
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Current Characteristic

L vs DC BIAS@25°C



L vs DC BIAS@100°C

