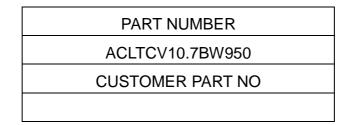


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I router specification	ALC Electronics Company Ennited	DN.	ACI TCV10 7BW050

$1 \cdot \text{SCOPE}$

This specification shall cover the characteristics of the ceramic filter with the type ACLTCV10.7BW950

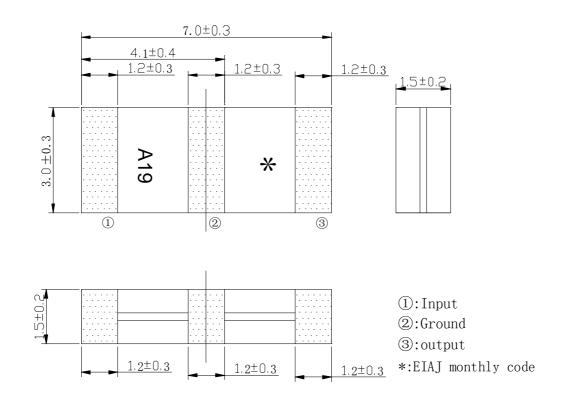
2 · PART NO.

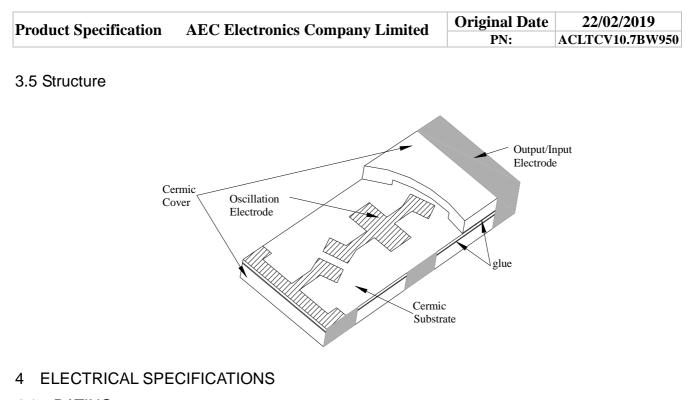


3 · OUTLINE DIMENSIONS AND MARK

3.1 Appearance: No visible damage and dirt.

- 3.2 Construction: SMD ceramic packaging.
- 3.3 The products conform to the RoHS directive and national environment protection law.
- 3.4 Dimensions and mark





4.1 RATING

Items	Content
Withstanding Voltage (V)	50 (DC [,] 1min)
Insulation Resistance Ri, $(M\Omega)$ min.	100 (10V · 1min)
Operating Temperature Range ($^\circ\!\!\mathbb{C}$)	-20~+80
Storage Temperature Range ($^\circ\!\mathbb{C}$)	-40~+85

4.2 ELECTRICAL SPECIFICATIONS

Items	Content
Center Frequency(fo)(MHz)	10.700±0.030
3dB Bandwidth(kHz)	fn±175
20dB Bandwidth(kHz) max	950
Insertion Loss (dB)	3.0±2.0 (at minimum loss point)
Ripple (dB) max	3.0 (within 3dB Bandwidth)
Spurious Attenuation (dB) min	20 (5MHz-15MHz)
Input/Output Impedance(Ω)	470
Temp. Characteristic	$\pm 0.5\%$ (–20 $^\circ C$ to 80 $^\circ C$)

$5 \cdot \text{TEST}$

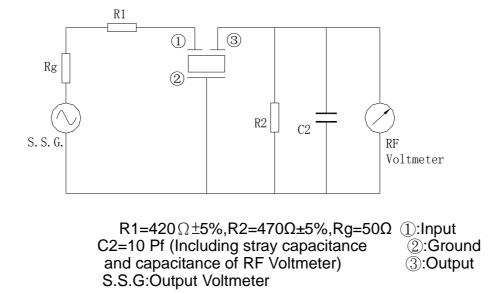
5.1 Test Conditions

Parts shall be tested under the condition (Temp. : $20\pm15^{\circ}$, Humidity : $65\pm20\%$ R.H.) unless the standard condition(Temp. : $25\pm2^{\circ}$, Humidity : $65\pm5\%$ R.H.)

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is regulated to measure.

5.2 Test Circuit



4

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6 · ENVIRONMENTAL TEST

No.	Item	Condition	Performance Requirement
6.1	Humidity	Subject the filter at 40: R.H. for 96h, Filter sha being placed in natura	It shall fulfill Table 1.
6.2	High Temperature Exposure	Subject the filter to 85: shall be measured after natural conditions for	It shall fulfill Table 1.
6.3	Low Temperature Exposure	Subject the filter to -40 shall be measured after natural conditions for 2	It shall fulfill Table 1.
6.4	Temperature Cycling	After temperature cycl performed 5 times, Filt after being placed in n 1h. Temperature $-20\pm3^{\circ}$ C $80\pm3^{\circ}$ C	It shall fulfill Table 1.
6.5	Vibration	Subject the filter to vib y and z axis with the a The frequency shall be between the limits of 1 then filter shall be mea	It shall fulfill Table 1.
6.6	Mechanical Shock	Filter shall be measure random dropping from wooden plate.	No visible damage and it shall fulfill Table 1.
6.7	Soldering Test	Passed through the refollowing condition and temperature for 24h be	It shall fulfill Table 1.

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(to be continued)

	6 · ENVIRONMENTAL TEST				
No.	Item	Condition of Test	Performance Requirements		
6.8	Solderability	Dipped in $235^{\circ}C \pm 5^{\circ}C$ solder bath for $3s\pm 0.5s$ with rosin flux (25wt% ethanol solution.)	The terminals shall be at least 95% covered by solder.		
6.9	Board Bending	Mount on a glass-epoxy board(width =50mm, thickness=1.6mm),then bend it to 1mm displacement(velocity= 1mm/s) and keep it for 5s.	Mechanical damage such as break shall not occur		

6 · ENVIRONMENTAL TEST

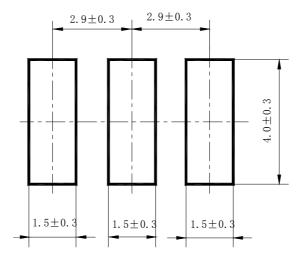
Table 1

Item	Characteristics after test			
Center Frequency Drift (kHz) max	±30			
Insertion Loss Drift (dB) max	±2			
3dB Bandwidth Drift (kHz) max	±25			
20dB Bandwidth Drift (kHz) max ±60				
Note:The limits in the above table are referenced to the initial				
measurements.				

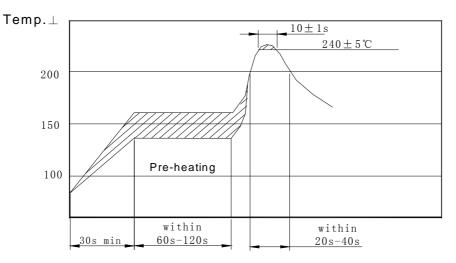
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i rouuct Specification	ALC Electronics Company Ennited	PN:	ACLTCV10.7BW950

7 RECOMMENDED LAND PATTERN AND REFLOW SOLDERING STANDARD CONDITIONS

7.1 Recommended land pattern



7.2 Recommended reflow soldering standard condition



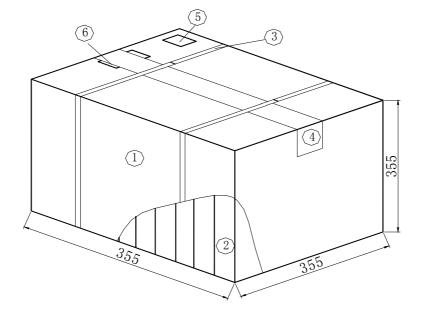
Product Specification	AEC Electronics Company Limited	Original Date	22/02/2019
i rouuci specification	AEC Electronics Company Ennited	PN:	ACLTCV10.7BW950

$8 \cdot PACKAGE$

To protect the products in storage and transportation $\ensuremath{^{,}}$ it is necessary to pack them (outer and inner package) .

8.1 On paper pack, the following requirements are requested.

8.1.1 Dimensions and Mark



NO.	Name	Quantity
1	Package	1
2	Inner Box	10
3	Belt	2.9 m
4	Adhesive tape	1.2 m
(5)	Label	1
6	Certificate of approval	1

8.1.2 Section of package

Package is made of corrugated paper with thickness of 0.8cm.Package has 10 inner boxes, each box has 1 reels (each reel for plastic bag).

8.1.3 Quantity of package

Per plastic reel 4000 pieces of piezoelectric ceramic part

Product Specification	roduct Specification AEC Elect		nited	Original Date PN:	22/02/2019 ACLTCV10.7BW950
Per inner box	1	reel			
Per package	10	inner boxes			
(40000 piec	es of piezoel	ectric ceramic part)			
8.1.4 Inner Box Dime	nsions				
29±1		3 3 340±2		3405?	
	Nar		<u> </u>	Quantity	
NO.	Indi	ne	Ċ	kuanniy	
NO.	Inner		Ċ.	1	

1

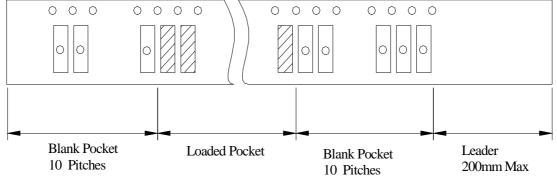
8.2 On reel pack, the following requirements are requested.

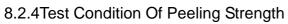
Label

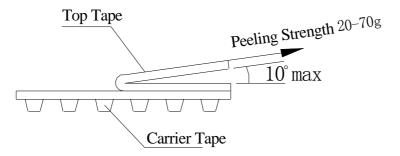
8.2.1 Reel

3

Product Specificat	tion AI	EC Electron	ics Company Lim	ited	Original Date	
specificat			in the second		PN:	ACLTCV10.7BW95
					8.0±0.2 ⊢ ⊢	
φA	W	Т	Pieces per reel	Carfie	er tape size	
	16.4min	22.4max	4000typ.		16	
330±3			•			







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i rouuct specification	ALC Electronics Company Ennited	PN:

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9 · EIAJ Monthly Code

2017/2019/2021/2023		2018/2020/2022/2024			
MONTH	CODE	MONTH	CODE		
JAN	А	JAN	Ν		
FEB	В	FEB	Р		
MAR	С	MAR	Q		
APR	D	APR	R		
MAY	E	MAY	S		
JUN	F	JUN	Т		
JUL	G	JUL	U		
AUG	Н	AUG	V		
SEP	J	SEP	W		
OCT	K	OCT	Х		
NOV	L	NOV	Y		
DEC	М	DEC	Z		

$10 \cdot \text{OTHER}$

10.1 Caution

10.1.1 Don't apply excess mechanical stress to the component and terminals at soldering. Do not use this product with bend.

10.1.2 Do not clean or wash the component for it is not hermetically sealed.

10.1.3 Do not use strong acidity flux, more than 0.2wt% chlorine content, in flow soldering. 10.1.4 Don't be close to fire.

10.1.5 This specification mentions the quality of the component as a single unit. Please insure the component is thoroughly evaluated in your application circuit

10.1.6 Expire date (Shelf life) of the products is 12 months after delivery under the conditions of a sealed and an unopened package. Please use the products within 12 months after delivery. If you store the products for a long time (more than 12 months), use carefully because the products may be degraded in the solder-ability or rusty. Please confirm solder-ability and characteristics for the products regularly.

10.1.7 Exposure components under soldering condition that is exceeding our recommendation will increase the failure dangerous.

10.1.8 Please contact us before using the product as automobile electronic component.10.2 Notice

10.2.1 Please return one of these specifications after your signature of acceptance.

10.2.2 When something gets doubtful with this specifications, we shall jointly work to get an agreement.