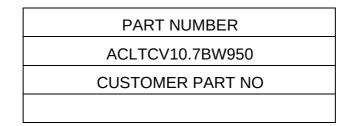


Product Specification	AEC Electronics Company Limited	Original Date	22/02/2019
	ALC Electronics Company Linnicu	DN•	ACI TCV10 7BW050

1. SCOPE

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

2. PART NO.



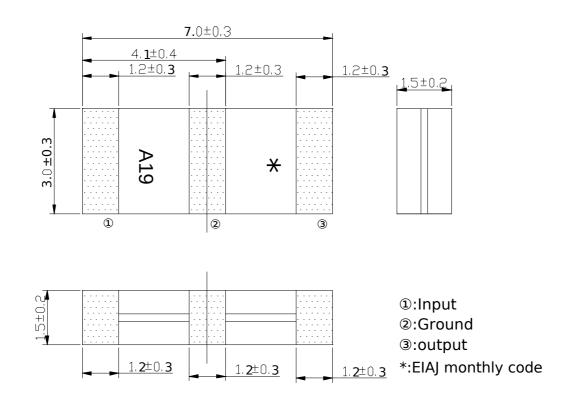
3. OUTLINE DIMENSIONS AND MARK

3.1 Appearance: No visible damage and dirt.

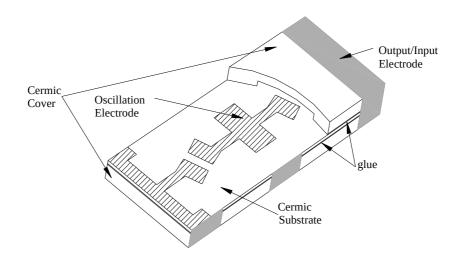
3.2 Construction: SMD ceramic packaging.

3.3 The products conform to the RoHS directive and national environment protection law.

3.4 Dimensions and mark



3.5 Structure



4 ELECTRICAL SPECIFICATIONS

4.1 RATING

Items	Content
Withstanding Voltage (V)	50 (DC,1min)
Insulation Resistance Ri, (M_{Ω}) min.	100 (10V, 1min)
Operating Temperature Range (°C)	-20 ~ +80
Storage Temperature Range (°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	±0.5% (–20°C to 80°C)

5. TEST

5.1 Test Conditions

Parts shall be tested under the condition (Temp.: 20 ± 15 °C,Humidity : $65\pm20\%$ R.H.) unless the standard condition(Temp.: 25 ± 2 °C,Humidity : $65\pm5\%$ R.H.)

Product Specification	on AEC Electronics Company Limited	Original Date PN:	22/02/2019 ACLTCV10.7BW950
is regulated to mea	sure.		
5.2 Test Circuit			
Rg S.S.G.) RF Voltmeter	
	R1=420Ω±5%,R2=470Ω±5%,Rg=50Ω C2=10 Pf (Including stray capacitance and capacitance of RF Voltmeter) S.S.G:Output Voltmeter	2 :Input :Ground :Output	

5

6. ENVIRONMENTAL TEST

No.	Item	Conditio	n of Test	Performance Requirement	
6.1	Humidity	Subject the filter at 40±2°C and 90%-95% R.H. for 96h, Filter shall be measured after being placed in natural conditions for 1h.		It shall fulfill Table 1.	
6.2	High Temperature Exposure	Subject the filter to 85±2°C for 96h, Filter shall be measured after being placed in natural conditions for 1h.		It shall fulfill Table 1.	
6.3	Low Temperature Exposure	Subject the filter to -40 shall be measured after natural conditions for 2	er being placed in	It shall fulfill Table 1.	
6.4	Temperature Cycling	After temperature cycl performed 5 times, Filt after being placed in n 1h. Temperature -20±3°C 80±3°C	ter shall be measured	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	e varied uniformly LOHz-55Hz-10Hz and	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	d left at room	lt shall fulfill Table 1.	

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(to be continued))

No.	ltem	Condition of Test	Performance Requirements
6.8	Solderability	Dipped in 235°C±5°C solder bath for 3s±0.5s with rosin flux (25wt% ethanol solution.)	The terminals shall be at least 95% covered by solder.
6.9	Board Ben	Mount on a glass-epoxy board(width =50mm, thickness=1.6mm),then bend it to 1mm displacement(velocity= 1mm/s) and keep it for Fe	

6. ENVIRONMENTAL TEST

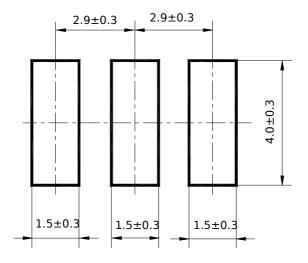
Table 1

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	_16 0	
Note:The limits in the above table are referenced to the initial		
measure	ements.	

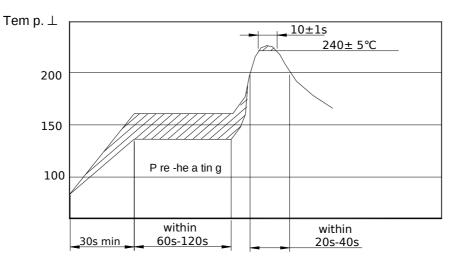
Product Specification	AEC Electronics Company Limited	0	22/02/2019
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7 RECOMMENDED LAND PATTERN AND REFLOW SOLDERING STANDARD CONDITIONS

7.1 Recommended land pattern



7.2 Recommended reflow soldering standard condition



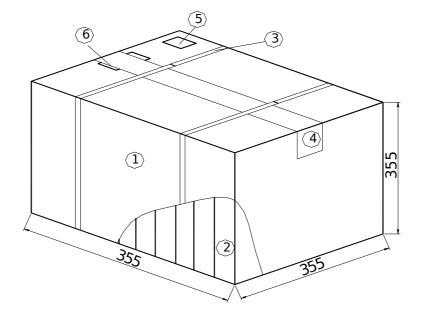
Product Specification	AEC Electronics Company Limited	Original Date	22/02/2019
I router specification	ALC Electronics Company Limited	PN:	ACLTCV10.7BW950

8. PACKAGE

To protect the products in storage and transportation , it is necessary to pack them (outer and inner package) \cdot

8.1 On paper pack, the following requirements are requested.

8.1.1 Dimensions and Mark



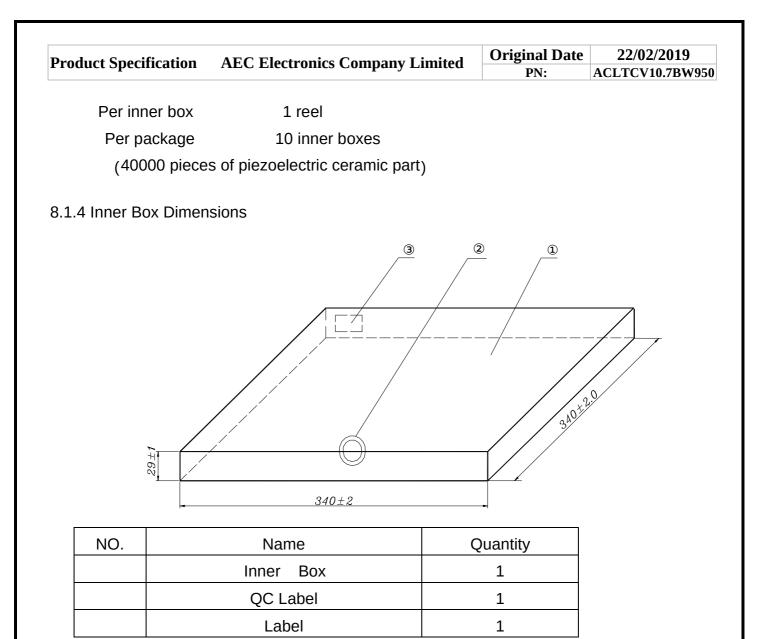
NO.	Name	Quantity
	Package	1
	Inner Box	10
	Belt	2.9 m
	Adhesive tape	1.2 m
	Label	1
	Certificate of approval	1

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

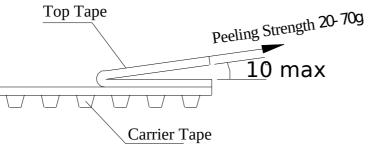
Per plastic reel 4000 pieces of piezoelectric ceramic part



8.2 On reel pack, the following requirements are requested.

8.2.1 Reel

o to		ation AI	EC Electron	ics Company Lim	ited Original I PN:	Date 22/02/2019 ACLTCV10.7BW950
$\frac{\overrightarrow{P} + \overrightarrow{P} $		-4		2.0±0.5		
2.3 Packing Method Sketch Map				ØA		
2.3 Packing Method Sketch Map	φA	W	Т	Pieces per reel	Carrier tape size)
O O	330±3	16.4min	22.4max	4000typ.	16	
10 Pitches10 Pitches200mm Max		ethod Ske	tch Map			
2.4Test Condition Of Peeling Strength	0					
	C C Bla 10	mk Pocket Pitches	Load	ed Pocket Bla	ank Pocket	



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r rouace opecification		

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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
ОСТ	К	OCT	Х
NOV	L	NOV	Y
DEC	М	DEC	Z

10. 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.