

## **SPECIFICATION SHEET**

CDECIFICATION CLIEFT NO	P1201- UE108M010HGKTA
SPECIFICATION SHEET NO.	L1701- OFTOOINIOTOLIGUIA
DATE	Dec.01, 2022
DAIL	
REVISION	AO
DESCRIPITION	SMD Aluminum Electrolytic Capacitors, Low ESR/Impedance type
	UE series, 2 pads Capacitance: 1000μF, Tolerance ±20%, Voltage 10V,
	Case size: : ØD10.0*L10.2mm, Impedance 0.23Ω, 2000 Hours
	RC: 360 mA (at 105 °C,100KHz), Operating Temp. Range -55°C ~+105°C
	RoHS/RoHS III Compliant & Halogen Free
	Package in Tape/Reel, 500pcs/Reel
CUSTOMER	
CUSTOMER PART NUMBER	
CROSS REF. PART NUMBER	
ORIGINAL PART NUMBER	Aillen CAE108M1AHUEGJ2TR
PART CODE	UE108M010HGKTA

#### **VENDOR APPROVE**

Issued/Checked/Approved







DATE: Dec.01, 2022

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DATE:

12/2/2022



### SMD ALUMINUM ELECTROLYTIC CAPACITORS UE SERIES

#### **MAIN FEATURE**







- SMD Aluminum Electrolytic Capacitors
- Wide Temperature
- Low Impedance & ESR
- Designed For SMD On PCB
- Applicable To Automatic Mounting Machine
- RoHS Complaint And Halogen Free

#### **APPLICATION**

• High-density Patch Assembly Electronic Circuit, Power Supply, Lighting, Etc.

#### **PART CODE GUIDE**



UE	108	М	010	н	G	К	Т	Α
1	2	3	4	5	6	7	8	9

- 1) UE: SMD Aluminum Electrolytic Capacitors, Low ESR/Impedance type, UE series, 2 pads
- 2) **108**: Rated Capacitance Code, 105: 1.0μF; 225: 2.2μF; 335: 3.3μF; 475: 4.7μF; 106: 10μF; 226: 22μF; 336: 33μF; 476: 47μF 686: 68μF; 107: 100μF; 157: 150μF; 227: 220μF; 337: 330μF; 477: 470μF; 687: 680μF; **108: 1000μF**; 158: 1500μF; 228: 2200μF; 338: 3300μF
- 3) M: Capacitance tolerance code, M: ±20%; K: ±10%; V: -10% ~ ±20%,
- 4) 010: Rated Voltage Code, 6V3: 6.3V; 010: 10V; 016:16V; 025: 25V; 035: 35V; 050: 50V; 063: 63V; 100: 100V
- 5) H: Environmental Requirements code, R: RoHS Complaint; H: RoHS III Complaint & Halogen Free
- 6) **G**: Aluminum Case size code, B: ØD3.0mm; C: ØD4.0mm; D: ØD5.0mm; E: ØD6.3mm; F: ØD8.0mm; **G: ØD10.0mm**; P: ØD12.5mm
- 7) K: Aluminum case Heigh code, H: L5.4mm; I: L6.5mm; J: L7.7mm; K: L10.2mm; L: L11.5mm; M: L12.5mm; N: L13.5mm
- 8) T: Package in Tape/Reel, 500pcs/Reel
- 9) A: Internal control or Customer's Special Code (A~Z or 1~9)

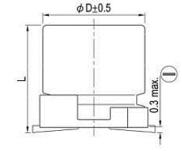


## SMD ALUMINUM ELECTROLYTIC CAPACITORS UE SERIES

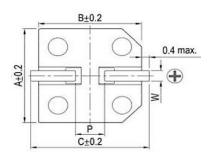
#### **Image For Reference**



**UE Series Case** ØD10.0\*L10.2mm
Explosion Proof Value

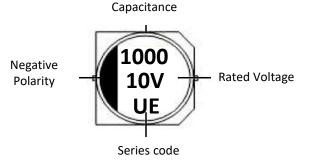




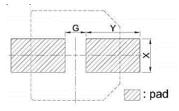


Symbol	Dimension (mm)
A	10.3
В	10.3
D	Ø10.0
С	11.0 +/-0.2
L	10.2 -0.2/+0.8
р	4.7 +/-0.20
W	0.70~1.30

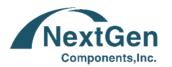
#### Marking



#### **Recommended Pad Layout**

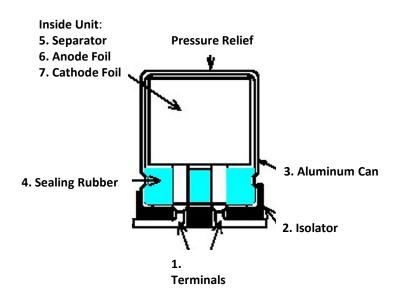


Symbol	Dimension
G	4.0
х	2.5
Y	4.0



## **SMD ALUMINUM ELECTROLYTIC CAPACITORS UE SERIES**

#### **CONSTRUCTION**



No.	Parts	Material
1	Terminal	Tinned Copper – Clad Steel Wire (Pb Free)
2	Isolator	Thermo-plastic resin
3	Aluminum Can	Aluminum
4	Sealing Rubber	Synthetic rubber
5	Separator	Manila hemp
6	Anode Foil	High purity aluminum foil
7	Cathode Foil	Aluminum foil



### SMD ALUMINUM ELECTROLYTIC CAPACITORS UE SERIES

#### **CHARACTERISTICS**

#### **Standard Atmospheric Conditions**

The standard range of atmospheric conditions for making measurements/test as follows:

Ambient temperature: 15°C to 35°C

Relative humidity: 45% to 85%; Air Pressure: 86kPa to 106kPa

If there is any doubt about the results, measurement shall be made within the following conditions:

Ambient temperature: 20°C ± 2°C

Relative humidity: 60% to 70% Air Pressure: 86kPa to 106kPa

As to the detailed information, please refer to following Table

#### **Operating Temperature Range**

The ambient temperature range at which the capacitor can be operated continuously at rated voltage is -55°C to 105°C.

As to the detailed information, please refer to table 1



## SMD ALUMINUM ELECTROLYTIC CAPACITORS UE SERIES

Table 1

ITEM				PERFO	RMANCI	Ē			
Nominal Capacitance	<condition></condition>								
(Tolerance)	Measuring Frequency: 120Hz ± 12Hz								
	Measuring V	oltage : N	lot more	than 0.5	V				
	Measuring Te	emperatu	ire : 20 $\pm$	2°C					
	<criteria></criteria>								
	Shall be with	in the spe	ecified ca	pacitanc	e tolera	nce			
Leakage Current	<condition></condition>								
	After DC Volt	age is ap	plied to c	apacitor	s throug	h the se	ries protec	ctive resistor	
	$(1k\Omega\pm10\Omega)$		-	-	_		•		
	leakage curre			_	-			_	
	following equ	uation.							
	<criteria></criteria>								
	I (μA) ≤ 0.01	CV or 3 (	μΑ), Wh	ichever i	s greate	r			
	I: Leakage Cu	rrent (μΑ	۸)						
	C: Capacitano	ce (µF)							
	V: Rated Wo	king Volt	age (V)						
tanδ	<condition></condition>								
	See Normal	Capacitar	nce, for m	neasurin	g freque	ncy, volt	age and te	emperature.	
	<criteria></criteria>								
	The tangent	of the los	s angle (1	Γanδ) of	the capa	citors sh	nall refer to	o the followir	
	table. Measu	rements	shall be r	nade un	der the s	same cor	nditions as	those given	
	for the meas	urement	of the ca	pacitanc	e.				
	W.V.	6.3	10	16	25	35	50	63/100	
	Tanδ	0.30	0.26	0.22	0.16	0.1	3 0.12	0.10	
Rated Woking Voltage (WV)	14/3/	6.3	10		16	25	25	F0/63/400	
Surge Voltage (SV)	W.V. (V.DC)	6.3	10		16	25	35	50/63/100	
	S.V. (V.DC.)	8	13		20	32	44	63	



ITEM	PERFORMANCE							
Temperature Characteristic IEC-60384-4 4.12	<condition>.</condition>							
1EC-00384-4 4.12	Step. T	esting Tempe	rature(°C	E)		Tim	e	
	1	20±2	2	Т	Time to reach thermal equilibrium			
	2	-55(-25)	±3	Т	ime to re	ach the	rmal equilibrium	
	3	20±2	2	Т	ime to re	ach the	rmal equilibrium	
	4.	105±	2	Т	ime to re	ach the	rmal equilibrium	
	5	20±2	2	Т	ime to re	ach the	rmal equilibrium	
	<ul> <li><criteria></criteria></li> <li>a. At +105°C, capacitance shall be within ±20% of their origin at +20°C, measured capacitance, Tanδ shall be within limit of 4.3. The leakage currer value at +105°C shall not more than 8 times the specified value.</li> <li>b. At step 5, Tanδ shall be within the limit of 4.3. The leakage current value shall not more than the specified value.</li> <li>c. At-55°C (-25°C), impedance (Z) ratio shall not exceed the value of the following table.</li> <li>Rated Voltage (V)</li> <li>6.3</li> <li>10</li> <li>16</li> <li>25</li> <li>35/50/63/100</li> <li>Z-25°C/</li> <li>Z+20°C</li> <li>(120Hz)</li> <li>≥Φ8</li> <li>5</li> <li>4</li> <li>3</li> <li>2</li> <li>2</li> <li>2</li> <li>Z-55°C/</li> <li>&lt;Φ8</li> <li>12</li> <li>8</li> <li>4</li> <li>4</li> <li>3</li> <li>2+20°C</li> <li>(120Hz)</li> <li>≥Φ8</li> <li>10</li> <li>8</li> <li>6</li> <li>4</li> <li>3</li> </ul>						The leakage current ed value.  age current value  e value of the  35/50/63/100  2  2  3  3  3	
Sealing Tape Reel Strength  12/2/2022	d. Capacitance Tanô and impedance shall be measured at 120Hz <condition>  Peel angle: 165 to 180°C referred to the surface on which the tape is glued.  Peel speed: 300mm per minutes  The peel strength must be 0.1 ~ 0.7N under these conditions.  Peel speed: 300mm/min</condition>							



ITEM		PERFORMANCE			
Load Life Test IEC-60384- 4 4.13	<condition></condition>				
IEC-00364- 4 4.13	The capacitor is stored at a temperature of 105 °C $\pm$ 2 °C with rated voltage				
	applied continuously for 2	000+48/0 hours, Then the product should be tested			
	after 16 hours recovering	time at atmospheric conditions. The result should			
	meet the following table:				
	<criteria> The characterist</criteria>	tic shall meet the following requirements.			
	Capacitance Change	$\pm$ 30% of initial measured value.			
	tanδ	300% or less of the specified value			
	Leakage current	Not more than the specified value.			
	Appearance	No leakage of electrolyte or swelling of the case.  All markings shall be legible			
	Inner construction	No corrosion of tab terminals or electrodes			
		surement of the leakage current, the D.C. rated ross the capacitor and its protective resistance (1k $\Omega$ )			
	for 30 mines after which it				
Shelf Life Test		. sitali be discharged.			
IEC-60384- 4 4.17	<condition></condition>				
		ored with no voltage applied at a temperature of 105			
		. Following this period the capacitors shall be removed			
		d be allowed to stabilized at room temperature for 4~8			
		connected to a series limiting resistor(1k±100 $\Omega$ ) with			
		for 30min. After which the capacitors shall be			
	discharged, and then, test				
		tic shall meet the following requirements.			
	Capacitance Change	$\pm$ 30% of initial measured value.			
	tanδ	300% or less of the specified value			
	Leakage current	Not more than 200% of the specified value			
	Appearance No leakage of electrolyte or swelling of the All markings shall be legible				
	Inner construction	No corrosion of tab terminals or electrodes			
	Remark:				
	If the capacitors are stored	d more than 1 year, the leakage current may increase.			
12/2/2022	Please apply voltage throu	gh about 1 Kω resistor, if necessary.			
14/4/4044		8			



ITEM	PERFORMANCE						
Surge Test IEC-60384- 4 4.9	<condition>         Test temperature: <math>15^{\sim}35^{\circ}C</math>         Series resistor: <math>R = \frac{100 \pm 50}{C}</math>         R: protective resistor (KΩ)         C: nominal capacitance (μF) Test voltage: Surge voltage item 4.4         No. of cycles: <math>1000</math>cycles Each cycles lasts for <math>6 \pm 0.5</math>min         "ON" for <math>30 \pm 5</math> s "OFF" for <math>5 \pm 0.5</math>min.         Capacitance Change       Within <math>\pm 15\%</math> of initial value.         tanδ       Not more than the specified value.         Leakage current       Not more than the specified value.         Appearance       There shall be no leakage of electrolyte.         Attention: This test simulates over voltage at abnormal situation, and not be hypothesizing that over voltage is always applied.</condition>						
Vibration Test IEC-60384- 4 4.8	Actention: This test simulates over voltage at abnormal situation, and not be hypothesizing that over voltage is always applied.    Condition						



ITEM	PERFORMANCE					
Solderability Test	<condition></condition>					
IEC-60384-4 4.6	The capacitor shall be tes	ted under the following conditions:				
	Soldering temperature : 2	245±3 °C				
	Dipping depth : 2mm					
	Dipping speed : 25 $\pm$ 2.5n	nm/s				
	Dipping time : $3\pm0.5$ s					
	<criteria></criteria>					
	The characteristic shall m	eet the following requirements.				
	Coating quality	A minimum of 95% of the surface being immersed				
Resistance To Solder Heat	<condition></condition>					
Test	After reflow soldering . Tl	ne capacitor shall be left at room temperature for				
	before measurement.					
	<criteria></criteria>					
	The characteristic shall m	eet the following requirements.				
	Capacitance Change	Within $\pm 10\%$ of initial value.				
	tanδ	Not more than the specified value.				
	Leakage current	Not more than the specified value.				
	Appearance	There shall be no leakage of electrolyte.				
Damp Heat Test IEC60384-4 4.12	<condition></condition>					
12000004 4 4.12	Humidity Test: According	to IEC60384-4 No.4.12 methods, capacitor shall be				
	exposed for 1000±8 hour	s in an atmosphere of 90~95% R H .at 60 $\pm$ 3°C, the				
	characteristic change sha	ll meet the following requirement.				
	<criteria></criteria>					
	The characteristic shall m	eet the following requirements.				
	Capacitance Change	Within $\pm 20\%$ of initial value.				
	tanδ	Not more than 120% of the specified value.				
	Leakage current	Not more than the specified value.				
	Appearance	There shall be no leakage of electrolyte.				



# SMD ALUMINUM ELECTROLYTIC CAPACITORS UE SERIES

ITEM			PERF	ORMANCE			
Change Of Temperature Test	<condition></condition>						
IEC-60384-4 4.7	Temperature cycle: According to IEC60384-4 No.4.7 methods, capacitor shall be						
	placed in an	oven, the con	dition accor	ding as below			
	No.	Temper	ature	Time			
	1	+25	°C	≤3 Minutes			
	2	-55°	°C	30±2 Minutes			
	3	+25	°C	≤3 Minutes			
	4	+105	5°C	30±2 Minutes			
	5	+25	°C	≤3 Minutes			
		1	to 5 = 1 cyc	le, Total 5 cycles			
	and then the	e capacitor sha	all be subjec	ted to standard atmospheric conditions for			
		er which meas					
	<criteria></criteria>						
	The characte	eristic shall me	et the follo	wing requirements.			
	Capacitan	ce Change	Within $\pm 10\%$ of initial value.				
	ta	nδ	Not more than the specified value.  Not more than the specified value.				
	Leakage	current					
	Appea	arance		No broken and undamaged.			
Low Temperature Test	<condition></condition>						
·			55 + 3°C for	96 ± 4 hours. And then the capacitor shall			
	-	-		conditions for 4 hours, after which			
		nts shall be ma		,			
	<criteria></criteria>						
	The characte	eristic shall me	et the follo	wing requirements.			
	Capacitan	ce Change		Within $\pm$ 10% of initial value.			
	ta	nδ	No	ot more than the specified value.			
	Leakage	current	No	ot more than the specified value.			
	Appea	arance		No broken and undamaged.			

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## **SMD ALUMINUM ELECTROLYTIC CAPACITORS UE SERIES**

ITEM		PERFORMANCE	
Vent Test IEC-60384-4 4.16	<pre><condition> The following test only ap ≥ Ф8 with vent. D.C. test</condition></pre>	pply to those products with vent products	s at diameter
	The capacitor is connected a current selected from f	ed with its polarity reversed to a DC powe following table is applied.	r source. Then
	Diameter (mm)  22.4 or less	DC Current (A)	
	specification. The vent sh	30 minutes of the voltage application alsonall operate with no dangerous conditions ieces of the capacitor and/or case.	
Mechanical Characteristics Test	<condition> Bending Test: Apply pressure in the direction of the arrow at a rate of about 0.5 mm / s until bent width reaches 2 mm and hold for 60s. The board shall be the test board "B" as specified in JIS C 0051: 2002. If the land area differs, it shall be specified clearly in the next item.</condition>		
	Substrate before test  Specimen (of SMD)  Substrate during test  Ra	1,6 mm ±  Support Radius 2,5 mm  20 mm  Bending tool	0,20 mm
	<criteria></criteria>	Length = actual width of substrate + son both sides	5 (minimum)
	Without mechanical dam	nage such as breaks. Electrical characterist	
	satisfied on whichever su	urface it may be fixated on.	

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### SMD ALUMINUM ELECTROLYTIC CAPACITORS UE SERIES

#### **CASE SIZE & MAX RIPPLE CURRENT**

Rated	Capacitance	Case Size	Dissipation Factor	Leakage	Ripple Current	Impedance/ESR
Voltage	(+/-20%)	ØD*L	@+20°C, 120Hz	Current	@+105°C, 100KHz	@ 20°C,100KHz
V	μF	mm	Tanδ Max.	(μΑ)max	mA rms.	Ω
10	1000	10*10.2	0.26	100	360	

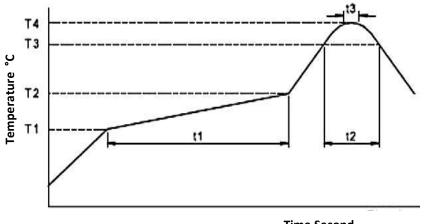
#### FREQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT

Frequency	50Hz	120Hz	300Hz	1KHz	≥10kHz
Coefficient	0.64	0.70	0.75	0.85	1.00

#### WELDING METHODS AND APPLICABILITY

Welding Method	Reflow Soldering	Soldering Iron	Wave Soldering
The feasibility of	ОК	ОК	N/A

#### Conditions for the use of lead-free reflow soldering .:



#### **Time Second**

#### **METHODS THE FOLLOWING:**

Reflow soldering: please follow the temperature condition during welding. If high temperature is used, please measure and inform the capacitor temperature and reflow soldering condition. The product size is larger and its rising temperature is slower. It is not necessary to adjust the temperature of the reflow solder in accordance with the size of the product. For example, the products of 4 and 10 will be installed in the PCB over tin furnace.



### SMD ALUMINUM ELECTROLYTIC CAPACITORS UE SERIES

#### **Precautions For Soldering Tin:**

Related factors of reflow soldering temperature:

Product size: The product size is larger and its temperature rises slowly.

Product installation position: The temperature of PCB center is lower than that of PCB.

Reflow soldering

If possible, avoid reflow soldering twice.

If repeated reflux is unavoidable, measure and inform the first and second reflux temperature,

and the time of reflow soldering.

Please do not 3 times of reflow soldering

Please follow the following conditions when soldering tin soldering:

Soldering iron maximum temperature:  $350\pm5^{\circ}C$ 

Welding time: 3+1/-0 sec

#### TEST METHOD AND PEAK TEMPERATURE PERMISSIBLE RANGE

Part Code		UE108M010HGKTA	
Rated Voltage (V)		10 V	
Case Size	Size ØD10.0*L10.2m		
Preheating	Temperature Range (T1~T2)	150~180 °C	
	Time (t1) Max.	180 Second	
The Duration Of The	Temperature Range (T3)	230 °C Max.	
	Time (t2) Max.	40 Second	
The Highest Temperature	Temperature Range (T4)	250 °C	
	Time (t3) Max.	5 Second	
Return The Number		≤2 times	

#### Note

- 1) Please contact us if the condition of use are higher than the
- 2) When performing  $2^{nd}$  reflow Soldering, please make sure the temperature of capacitor have cooled to :  $5^{\sim}35^{\circ}C$
- 3) If the reflow condition is based on IPC/JEDEC(J-STD-020), please contact us.



### SMD ALUMINUM ELECTROLYTIC CAPACITORS UE SERIES

#### ATTENTION FOR OP-CAP SOLDERING

Reflow soldering will reduce the rated electrostatic capacity of the product, and it should be confirmed whether reflow soldering condition meets the specification of recommended reflow soldering.

Although the actual reflow condition change is still based on the reflow soldering method, please note that the highest temperature and the electrode terminal at the bottom of the aluminum shell must not exceed the maximum temperature.

Please note: OP - CAP products during the process of reflow heating temperature should increase to more than 200 °C. If the reflow condition temperature or duration is greater than the above table, the OP-CAP product will be damaged. The electrostatic capacity of the product is reduced by about 50%, the leakage current is large (up to mA), and the outside of the capacitor is damaged.

#### APPLICATION GUIDELINE

#### **Circuit Design**

- 1) Please make sure the environmental and mounting conditions to which the capacitor will be exposed are within the conditions specified in catalogue.
- 2) Operating temperature and applied ripple shall be within specification.
- 3) Appropriate capacitors which comply with the life requirement of the products should be selected when designing the circuit.
- 4) Aluminum electrolytic capacitors are polar. Make sure that no reverse voltage or AC voltage is applied to the capacitors. Please use bi-polar capacitors for a circuit that can possibly see reversed polarity.
- Note: Even bi-polar capacitors cannot be used for AC voltage application.
- 5) Do not use aluminum electrolytic capacitors in a circuit that requires rapid and very frequent charge/ discharge. In this type of circuit, it is necessary to use a special design capacitor with extended life characteristics.
- 6) Do not apply excess voltage.
- (1) Please pay attention to that the peak voltage, which is DC voltage overlapped by ripple current, will not exceed the rated voltage.
- (2) In the case where more than 2 aluminum electrolytic capacitors are used in series, please make sure that applied voltage will be lower than rated voltage and the voltage will be applied to each capacitor equally by using a balancing resistor in parallel with the capacitor.
- 7) Aluminum electrolytic capacitors shall not be used under the following environmental conditions:
- (1) (a) Capacitors will be exposed to water (including condensation), brine or oil. (b) Ambient conditions that include toxic gases such as hydrogen sulfide, sulfurous acid, nitrous acid, chlorine, bromine, methyl bromide, ammonium, etc. (c) Ambient conditions that expose the capacitor to ozone, ultraviolet ray and radiation.



### SMD ALUMINUM ELECTROLYTIC CAPACITORS UE SERIES

(2) Severe vibration and physical shock conditions that exceed specification.

Vibration test condition: 10-55-10Hz

vibration frequency range :  $10\sim55\sim10$ Hz

sweep rate :  $10\sim55\sim10$ Hz/minute

sweep method: logarithmic

amplitude or acceleration: 1.5mm (max. acceleration is 10G)

direction of vibration : X, Y, Z direction testing time: 2 hours per each direction

Shock is not applicable normally.

If a particular condition is required, please contact our sales office.

8) The main chemical solution of the electrolyte and the separator paper used in the capacitors are combustible.

The electrolyte is conductive. When it comes in contact with the PC board, there is a possibility of pattern corrosion or short circuit between the circuit pattern, which could result in smoking or catching fire. Do not locate any circuit pattern beneath the capacitor end seal.

- 9) Do not design a circuit board that the heat generating components are placed near the aluminum electrolytic capacitor or on the reverse side of PC board, if that just under the capacitor.
- 10) Electrical characteristics may vary depending on changes in temperature and frequency. Please consider this variation when you design circuits.
- 11) When you install more than 2 capacitors in parallel, please consider the balance of current flowing into the capacitors.
- 12) While mounting capacitors on double-side PC board, the capacitors should be away from those unnecessary base plate holes and connection holes.

#### Mounting

- 1) Once a capacitor has been assembled in the set and power applied, do not attempt to re-use the capacitor in other circuits or application.
- 2) Leakage current of the capacitors that have been stored for more than 2 years may increase. When leakage current has increased, please perform a voltage treatment using a  $1k\Omega$  resistor.
- 3) Please confirm specifications and polarity before installing capacitors on the PC board.
- 4) Do not drop capacitors on the floor, nor use a capacitor that was dropped.
- 5) Do not deform the capacitor during installation.
- 6) Please pay attention to the mechanical shock to the capacitor by suction nozzle of the automatic insertion machine or automatic mounter, or by product checker, or by centering mechanism.

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## SMD ALUMINUM ELECTROLYTIC CAPACITORS UE SERIES

#### **Reflow Soldering**

- 1) Please follow "Reflow Soldering Conditions" when use the part.
- 2) When an infrared heater is used, please pay attention to the extent of heating since the absorption rate of infrared will vary due to difference in the color and size of the capacitor.
- (1) Do not tilt lay down or twist the capacitor body after the capacitor are soldered to the PC board.
- (2) Do not carry the PC board by grasping the soldered capacitor.
- (3) Please do not allow anything to touch the capacitor after soldering. If PC boards are stored in stack, please make sure the PC board or other components away from the capacitor.
- (4) The capacitors shall not be effected by any radiated heat from the soldered PC board or other components after soldering.
- (5) Cleaning:
- (a) Do not clean capacitors with halogenated cleaning agent. However, if it is necessary to clean with halogenated cleaning agent, please contact our sales office.
- (b) Recommended cleaning method, Applicable: Any type, any ratings

Cleaning conditions: Total cleaning time shall be within 2 minutes by immersion, ultrasonic or other methods. Temperature of the cleaning agents shall be 40°C or below. After cleaning, capacitors should be dried by using hot air for the minimum 10 minutes along with the PC board mounted. Hot air temperature should be within the maximum operating temperature of the capacitor. Insufficient dryness after water rinse may cause appearance problems, such as bottom-plate bulge and etc.; Avoid using ozone destructive substances as cleaning agents for protecting global environment.

#### In The PCB After Mounted

- 1) Do not directly touch terminal by hand.
- 2) Do not link positive terminal and negative terminal by conductor, nor spill conductible liquid such as alkaline or acidic solution on or near the capacitor.
- 3) Please make sure that the ambient conditions where the set is installed are free from spilling water or oil, direct sunlight, ultraviolet rays, radiation, poisonous gases, vibration or mechanical shock.



### SMD ALUMINUM ELECTROLYTIC CAPACITORS UE SERIES

#### Maintenance and Inspection

Please periodically inspect the aluminum capacitors that are installed in industrial equipment. The following items should be checked:

Appearance: remarkable abnormality such as pressure relief vent opening, electrolyte leaking, etc.

Electrical characteristics: capacitance, dielectric loss tangent, leakage current and etc., which are specified in catalogue or alternate product specification.

#### In an Emergency

- 1) If you see smoke due to operation of safety vent, please turn off the main switch or pull out the plug from the outlet.
- 2) If you breathe the gas or ingest the electrolyte, please wash out your mouth and throat with water immediately.
- 3) If your skin is exposed to the electrolyte, please wash it away using soap and water.

#### Storage

1) Do not keep capacitor in high temperature and high humidity atmosphere. Storage conditions should be:

Temperature:  $5^{\circ}\text{C} \sim 35^{\circ}\text{C}$ Humidity: lower than 75%

Place: Indoor

- 2) Avoid ambient conditions where capacitors are covered with water, brine or oil.
- 3) Avoid ambient conditions where capacitors are exposed to ozone, ultraviolet ray or radiation.

#### Disposal

Please take either of the following methods in disposing capacitors.

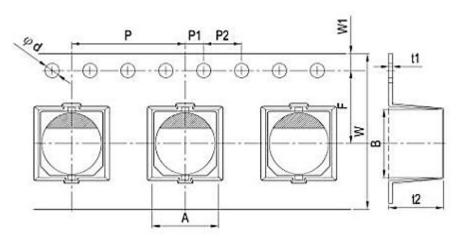
- 1) Incinerate them after crushing capacitors or making a hole on the capacitor body.
- 2) If incineration is not applicable, hand them over to a waste disposal agent and have them buried in landfills.



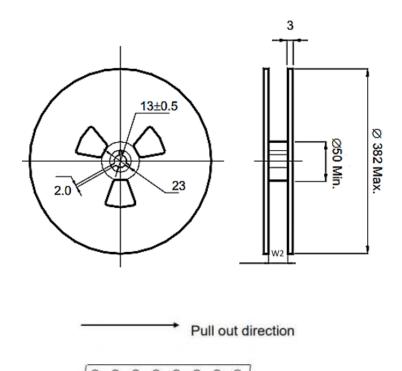
# **SMD ALUMINUM ELECTROLYTIC CAPACITORS UE SERIES**

#### TAPE (Unit: mm), 500pcs/Reel,

Applicable standard JIS C0806 and IEC 60286.



### REEL (Unit: mm)



Case size: ØD10.0*L10.2mm		
Symbol	Dimension (mm)	
W	24.0	
Р	16.0	
F	11.5	
А	10.7	
В	10.7	
T 2	11.0	
Ø d	1.5	
P 1	2.0	
P 2	4.0	
t 1	0.4	
W 1	1.75	
W2	26.0 +/-0.3	

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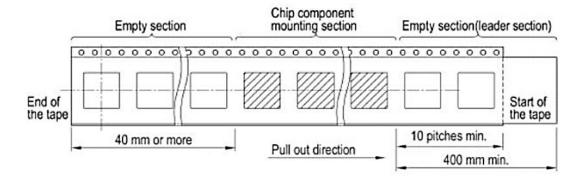
### SMD ALUMINUM ELECTROLYTIC CAPACITORS UE SERIES

#### PACKING METHOD

Polarity: Anode on the opposite side of the feed hole

The leader length of the tape shall not be less than 400mm including 10 or more embossed sections in which no parts are contained.

The winding core is provided with an over 40mm long empty section



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