

### **SPECIFICATION SHEET**

SPECIFICATION SHEET NO.	Q0616- UZ476M025HEHTA
DATE	Jun. 16, 2023
REVISION	A2
DESCRIPITION	SMD Aluminum Electrolytic Capacitors, Extra low Impedance type UZ series, 2 pads Capacitance: 47μF, Tolerance ±20%, Voltage 25V, Case size: ØD6.3*L5.40mm, Impedance 0.44 Ohm. Ripple Current: 240mA Max. @+105°C, 100KHz Lifetime 2000Hours @105°C, Operating Temp. Range -55°C ~+105°C RoHS/RoHS III Compliant & Halogen Free, Package in Tape/Reel, 1000pcs/Reel
CUSTOMER	
CUSTOMER PART NUMBER	
CROSS REF. PART NUMBER	
ORIGINAL PART NUMBER	Aillen CAE476M1EHUZEE4TRC
PART CODE	UZ476M025HEHTA

VENDOR APPROVE			
Issued/Checked/Approved	Compose Mandy Xu Yoy x2U	Ruby Zhang Zhang Zhang Zhang	Jack To WP 0 ge
DATE: Jun. 16, 2023			

CUSTOMER APPROVE
DATE:
6/16/2023



### SMD ALUMINUM ELECTROLYTIC CAPACITORS UZ SERIES

#### MAIN FEATURE

- Polar Aluminum Electrolytic Capacitor (Foil Type)
- High stability and reliability
- Lifetime 2000 Hours @ 105°C
- Designed Capacitor's Quality Meets IEC60384.
- Applicable To Automatic Mounting Machine
- Cross Competitors Parts and more.
- RoHS Complaint And Halogen Free

#### APPLICATION

• High-density Patch Assembly General Electronic Circuit, such as power supply, lighting, etc.

#### PART CODE GUIDE



UZ	476	м	025	н	E	н	т	Α
1	2	3	4	5	6	7	8	9

1) UZ: SMD Aluminum Electrolytic Capacitors, Extra low Impedance type, 2 pads

2) 476: Rated Capacitance Code, 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;

3) M: Capacitance tolerance code, M: ±20%; K: ±10%; V: -10% ~ ±20%,

4) 025: 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) E: 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) H: 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, 1000pcs/Reel
- 9) A: Internal control or Customer's Special Code (A~Z or 1~9)





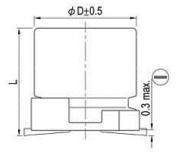
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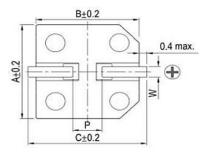
Image for reference



**UZ** Series Case Ø6.30\*L5.40mm Non explosion Proof Value







Capacitance

47

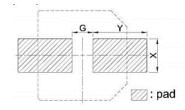
25V

UZ

Series code

Symbol	Dimension (mm)
Α	6.6
В	6.6
D	Ø6.3
С	7.2 +/-0.2
L	5.4 -0.3/+0.5
р	2.0 +/-0.20
w	0.50~0.80

#### **Recommended Pad Layout**



Symbol	Dimension
G	1.9
х	1.6
Y	3.5

#### Marking

Negative Polarity

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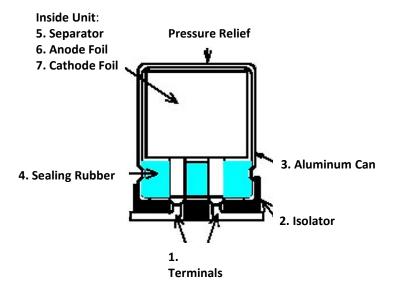
NextGen Components, Inc.

**Rated Voltage** 



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#### 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



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#### 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  $\pm$  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 UZ SERIES

Table 1

ITEM	PERFORMANCE								
Nominal Capacitance	<condition></condition>								
(Tolerance)	Measuring Frequency : 120Hz $\pm$ 12Hz								
	Measuring V	oltage : N	ot more	than 0.5	V				
	Measuring Te	emperatu	re : 20 $\pm$	2°C					
	<criteria></criteria>								
	Shall be with	in the spe	ecified ca	pacitano	e toler	ance			
Leakage Current	<condition></condition>								
	After DC Volt	age is ap	plied to c	apacito	rs throu	gh the s	eries	protec	tive resistor
	(1kΩ±10Ω)	so that te	erminal vo	oltage m	ay read	h the re	acted	d use vo	oltage. The
	leakage curre	ent when	measure	d in 2 m	inutes	shall not	exce	eed the	values of the
	following equ	uation.							
	<criteria></criteria>								
	I (μA) ≤ 0.01	CV or 3 (	μΑ) <i>,</i> Wh	ichever	s great	er			
	I: Leakage Cu	rrent (μA	()						
	C: Capacitano	ce (µF)							
	V: Rated Wo	rking Volt	age (V)						
tanδ	<condition></condition>								
	See Normal	Capacitar	nce, for m	neasurin	g frequ	ency, vo	ltage	e and te	mperature.
	<criteria></criteria>								
	The tangent	of the los	s angle (1	Γanδ) of	the cap	acitors	shall	refer to	the following
	table. Measu	rements	shall be r	nade un	der the	same co	ondit	ions as	those given
	for the meas	urement	of the ca	pacitano	æ.				
	W.V.	6.3	10	16	25	3	35	50	63/100
	Tanδ	0.26	0.19	0.16	0.1	4 0.	12	0.10	-
Rated Woking Voltage (WV)							1	i	
Surge Voltage (SV)	W.V. (V.DC)	6.3	10		16	25		35	50/63/100
	S.V. (V.DC.)	7	11		18	28		40	-
			,						

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### SMD ALUMINUM ELECTROLYTIC CAPACITORS UZ SERIES

ITEM	PERFORMANCE								
Temperature Characteristic	<conditio< td=""><td colspan="6"><condition>.</condition></td></conditio<>	<condition>.</condition>							
IEC-60384-4 4.12	Step.	Testin	ig Temper	rature(°C	)	Time			
	1		20±2			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	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 curr 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> </ul>						The leakage curren ed value. age current value		
	Rated	Voltage	(V)	6.3	10	16	25	35/50/63/100	
	Z-25°C Z+20°C		<Ф8	4	3	2	2	2	
	(120H	z)	≥Φ8	5	4	3	2	2	
	Z-55°C		<Ф8	12	8	4	4	3	
	(120H		≥Φ8	10	8	6	4	3	
	d. Capa	acitance	Tan& and	impedar	nce shall	be meas	ured at	120Hz	
Sealing Tape Reel Strength	<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 Cover tape Direction of unreeling 165 - 180° Carrier tape Carrier tape</condition>								

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### SMD ALUMINUM ELECTROLYTIC CAPACITORS UZ SERIES

ITEM	PERFORMANCE					
Load Life Test IEC-60384- 4 4.13	<condition> The capacitor is stored at a temperature of 105 °C <math>\pm</math> 2 °C with rated voltage</condition>					
		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>	ic 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				
	Remarks: Prior to the measurement of the leakage current, the D.C. rated voltage shall be applied across the capacitor and its protective resistance ( $1k\Omega$ ) for 30 mines after which it shall be discharged.					
Shelf Life Test	<condition></condition>					
IEC-60384- 4 4.17	The capacitors are then st	pred with no voltage applied at a temperature of 105				
	±2°C for 1000+48/0 hours	. Following this period the capacitors shall be removed				
	from the test chamber and	be allowed to stabilized at room temperature for 4~8				
	hours. Next they shall be c	onnected to a series limiting resistor(1k±100 $\Omega$ ) with				
	D.C. rated voltage applied	for 30min. After which the capacitors shall be				
	discharged, and then, test	ed the characteristics.				
	<criteria> The characterist</criteria>	ic 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 case. All markings shall be legible				
	Inner construction	No corrosion of tab terminals or electrodes				
	Remark:					
		more than 1 year, the leakage current may increase.				
6/16/2023	Please apply voltage throu	gh about 1 Kω resistor, if necessary. 8				



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ITEM	PERFORMANCE						
Surge Test IEC-60384- 4 4.9	$ \\ Test temperature:15~35°C \\ Series resistor: R = \frac{100\pm50}{C} \\ R: protective resistor (K\Omega)C: nominal capacitance (\muF) Test voltage: Surge voltage item 4.4No. of cycles: 1000cycles Each cycles lasts for 6±0.5min"ON" for 30±5 s "OFF" for 5±0.5min.Capacitance Change Within±15% of initial value.tan \delta 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$						
Vibration Test IEC-60384- 4 4.8	hypothesizing that over voltage is always applied. <condition>         Fix it at the point 4 mm or less from body. For ones of 12.5 mm or more in diameter or 25 mm or Capacitance; Direction and during of vibration:3         orthogonal directions mutually each for 2 hours(total of 6 hours)         Vibration frequency range : 10Hz ~ 55Hz</condition>						
	Peak to peak amplitude : 1.5mm         Sweep rate : 10Hz ~ 55Hz ~ 10Hz in about 1 minute <criteria>         The characteristic shall meet the following requirements.         Capacitance Change       Within ± 10% of initial value.         tanδ       Not more than the specified value.</criteria>						
	Leakage current Appearance	Not more than the specified value. There shall be no leakage of electrolyte.					



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ITEM	PERFORMANCE					
Solderability Test IEC-60384-4 4.6	<condition> The capacitor shall be tested under the following conditions: Soldering temperature : 245±3 °C Dipping depth : 2mm Dipping speed : 25±2.5mm/s Dipping time : 3±0.5s <criteria></criteria></condition>					
	Coating quality	eet the following requirements. A minimum of 95% of the surface being immersed				
Resistance To Solder Heat Test	<condition> After reflow soldering . The capacitor shall be left at room temperature for before measurement. <criteria> The characteristic shall meet the following requirements.</criteria></condition>					
	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>Humidity Test: According to IEC60384-4 No.4.12 methods, capacitor shall be exposed for 1000±8 hours in an atmosphere of 90~95% R H .at <math>60\pm3^{\circ}</math>C, the characteristic change shall meet the following requirement. <criteria>Criteria&gt;The characteristic shall meet the following requirements.Capacitance ChangeWithin ± 20% of initial value.tan\deltaNot more than 120% of the specified value.Leakage currentNot more than the specified value.AppearanceThere shall be no leakage of electrolyte.</criteria></condition>					



### SMD ALUMINUM ELECTROLYTIC CAPACITORS UZ SERIES

ITEM			PERF	ORMANCE		
Change Of Temperature Test	<condition></condition>					
IEC-60384-4 4.7	Temperature	Temperature cycle: According to IEC60384-4 No.4.7 methods, capacitor shall				
	placed in an	oven, the cor	ndition accor	ding as below		
	No.	Tempe	rature	Time		
	1	+25	°C	≤3 Minutes		
	2	-55	°C	30±2 Minutes		
	3	+25	°C	≤3 Minutes		
	4	+105	5℃	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		
	4 hours, after which measurements shall be made.					
	<criteria></criteria>					
	The characteristic shall meet the following requirements.					
	Capacitan	ce Change		Within $\pm$ 10% of initial value.		
	ta	nδ	No	ot more than the specified value.		
	Leakage	current	No	t more than the specified value.		
	Арреа	arance		No broken and undamaged.		
Low Temperature Test	<condition></condition>					
		re placed at -!	55 ± 3°C for	96 ± 4 hours. And then the capacitor shall		
	be subjected	l to standard	atmospheric	conditions for 4 hours, after which		
	measureme	nts shall be m	ade.			
	<criteria></criteria>					
	The characte	eristic shall me	eet 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.		
			1			

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## SMD ALUMINUM ELECTROLYTIC CAPACITORS UZ SERIES

	1		
ITEM		PERFORMANCE	
Vent Test IEC-60384-4 4.16	≥ Ф8 with vent. D.C. test	oply to those products with vent products at diameter ed with its polarity reversed to a DC power source. The ollowing table is applied.	
	Diameter (mm) 22.4 or less	DC Current (A)	
	specification. The vent sh	30 minutes of the voltage application also meets the all operate with no dangerous conditions such as eces of the capacitor and/or case.	
Mechanical Characteristics Test	0.5 mm / s until bent wid	sure in the direction of the arrow at a rate of about th reaches 2 mm and hold for 60s. The board shall be cified in JIS C 0051: 2002. If the land area differs, it sha e next item.	
	Substrate before test Specimen (of SMD)	45 mm ± 2 mm 20 mm 20 mm 20 mm 20 mm 20 mm 20 mm Bending tool	
	during test Ra	dius 5 D Length = actual width of substrate + 5 (minimum) on both sides	
		age such as breaks. Electrical characteristics shall be	
		trodes on both surfaces, above requirements shall be rface it may be fixated on.	!

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### SMD ALUMINUM ELECTROLYTIC CAPACITORS UZ 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.	(µA)max	mA rms .	Ω
25	47	6.3*5.4	0.14	11.8	240	0.44

Remark:

1)Specification are subject to change without notice should a safety or technical concern arise regarding the product please be sure to contact our sales offices;

2)The sizes in the above table are all general specifications. If you need other specifications, please contact us.

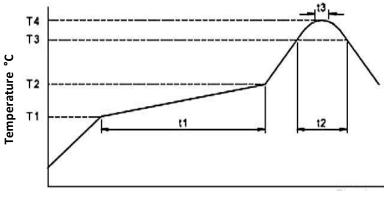
3) Frequency Coefficient of Allowable Ripple Current:

Frequency	50Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.64	0.70	0.75	0.83	1.00

#### WELDING METHODS AND APPLICABILITY

Welding Method	<b>Reflow Soldering</b>	Soldering Iron	Wave Soldering	
The feasibility of	ОК	ОК	No	

#### 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. 6/16/2023



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#### **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		UZ476M025HEHTA	
Rated Voltage (V)		25 V	
Case Size		ØD6.3*L5.40mm	
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.	60 Second	
The Highest Temperature	Temperature Range (T4)	260 °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  $\pm 5^{\circ}35^{\circ}$ C

3) If the reflow condition is based on IPC/JEDEC(J-STD-020), please contact us.

#### **TEMPERATURE COEFFICIENT**

Ambient Temperature	105	85	≤70
Coefficient	1.0	1.7	2.0

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#### 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.



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

Vibration test condition: 10-55-10Hz

vibration frequency range : 10 $\sim\!55\!\sim\!10\text{Hz}$ 

sweep rate :  $10 \sim 55 \sim 10$ 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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#### **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.



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#### **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°C~35°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.

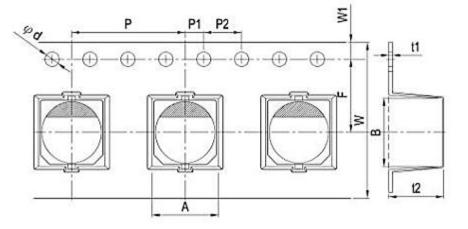
2) If incineration is not applicable, hand them over to a waste disposal agent and have them buried in landfills.



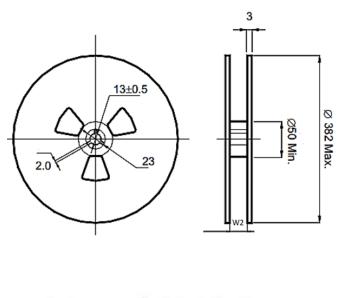
SMD ALUMINUM ELECTROLYTIC CAPACITORS UZ SERIES

### TAPE (Unit: mm), 1000pcs/Reel

Applicable standard JIS C0806 and IEC 60286.



**REEL (Unit: mm)** 



Pull out direction

0	0	0	0	0	0	0	0
-	٦	-	-	-	-	-	•
+		4	-	4	- 1	4	-

Case size: ØD6.3*L5.40mm			
Symbol	Dimension (mm)		
W	16.0		
Р	12.0		
F	7.5		
А	7.0		
В	7.0		
T 2	5.8		
Ød	1.5		
P 1	2.0		
P 2	4.0		
t 1	0.4		
W 1	1.75		
W 2	18.0 +/-0.3		

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### SMD ALUMINUM ELECTROLYTIC CAPACITORS UZ 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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