

SAFETY STANDARDS REGULATED, REINFORCED **INSULATION TYPE, AH SERIES**

POE-D10-00-E-24

Ver: 24

Page: 1 / 17

PRODUCT: CERAMIC DISC CAPACITOR SAFETY RECOGNIZED

P/N: YP0AH561K080L3CN0B

CUSTOMER: 凯铨

DOC. NO.: POE-D10-00-E-24

DATE: 2022/6/17

APPROVED BY CUSTOMER

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SAFETY STANDARDS REGULATED, REINFORCED | POE-D10-00-E-24 | Ver: 24 | Page: 2 / 17

Table of Contents

No.	Item	Page
1	Part number for SAP system	4
2	Marking	5
3	Scope	6
4	Specification and test method	7~10
5	Packing specification	11
6	Notices	12~15
7	Soldering Recommendation	16
8	Drawing of Internal Structure and material list	17





SAFETY STANDARDS REGULATED, REINFORCED INSULATION TYPE, AH SERIES

POE-D10-00-E-24

Ver: 24

Page: 3 / 17

Customer	凯铨	•	SAP PART NO	YP0A	H561K080L3CN0B
CUSTOMER P/N 客 戶 料	號		REV. 修正		
C A P. 電容量	560 pF TOL.允		WORKING VC 工作電壓	[图]	X1: 400 VAC Y1: 250 VAC
D · F 散逸因素	2.5% MAX. AT 測試 1.0 V		TEST VOLT 測試電壓		4000 VAC
I .R . 絕緣電阻	10000MΩMIN.A 檔位測i		T.C. 溫度特性	±	Y5P TOL.±10%
F 脚 距	10.0±0.5 mm	Lead st	yle: L(Stra	aight lea	ad)
D 外 寬	9.0 mm max		D max.		T max.
T 厚 度	5.0 mm max			For	
L 腳 長	3.3±0.5 mm	后车	F = 11	L≧20mm ∕	
d 線 徑	0.55±0.05 mm	表技		` For L<20mm	
e 塗 裝 腳 長					unit:mm
MARKING:	UK AH561K DN \$ FIS 1:400V~ 21:250V~ PN 2C61234 250V~	PASSIVE SYSTEM	M ALLIANCE OF SERVICE	, UZV VILV	

"•": Individual specification code, it is added under the lot no.

REMARK



SAFETY STANDARDS REGULATED, REINFORCED INSULATION TYPE, AH SERIES

POE-D10-00-E-24 Ver: 24 Page: 4 / 17

1. Part number for SAP system:

$(\mathbf{Ex.})$	YP	0	<u>AH</u>	<u>561</u>	K	08	0	<u>L</u>	<u>3C</u>	N	0	В
	(1)	(2)-1	(2)-1	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)

(1) Temperature characteristic (identified code)

CODE	Temperature characteristic	Cap. Change
YP	B(Y5P)	±10%

(2)-1 Rated voltage(identified by 1-figure code):

Code	Rated voltage
0	X1:400Vac/Y1:250Vac

(2)-2 Type(identified by 2-figure code): AH

(3)Capacitance (identified by 3-figure code):

Code	Capacitance (pF)
561	560

(4)Capacitance tolerance (identified by code):

Code	Tolerance
K	±10%

(5) Nominal body diameter dimension:

Code	Max Diameter of Body	Max thickness of body
08	9.0 場后	有多。

(6)Internal code: 0--Normal, other code--Special control

(7)Lead Style:

Code	Tolerance
L	Straight lead

(8)Packing mode:

Bulk Code	Description
3C	Lead length : 3.3mm

(9) Tolerance of lead length

Code	Description	Old.
N	±0.5 mm	Short lead

(10)Lead space

Code	Description
0	10.0±0.5 mm

(11)Epoxy resin code

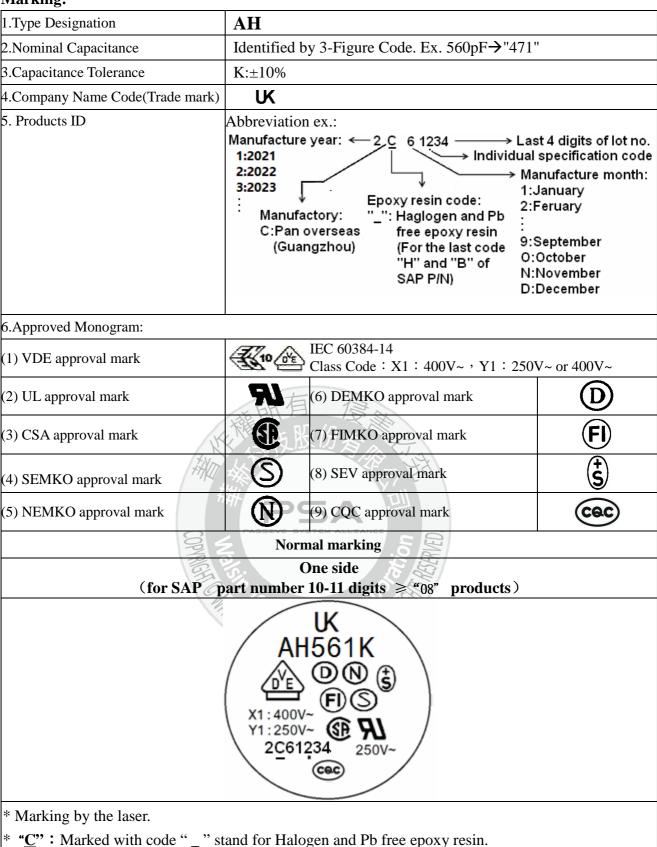
Code	Description
В	Halogen and Pb free, epoxy resin.



SAFETY STANDARDS REGULATED, REINFORCED INSULATION TYPE, AH SERIES

POE-D10-00-E-24 | Ver: 24 | Page: 5 / 17

2. Marking:





SAFETY STANDARDS REGULATED, REINFORCED	DOE D10 00 E 24	V 24	D (/ 17
INSULATION TYPE, AH SERIES	POE-D10-00-E-24	ver: 24	Page: 6 / 1/

3. Scope:

THIS SPECIFICATION APPLIES TO CERAMIC INSULATED CAPACITORS DISK TYPE USED IN ELECTRONIC EQUIPMENT.

3.1Applicable safety standard

This specification applies to the VDE, SEV, SEMKO, FIMKO, NEMKO, DEMKO, KTL, UL, CSA approved ceramic capacitors disc type for antenna coupling, line-by-pass and across-the-line. X1, Y1 capacitor based on IEC60384-14. "UL, CSA recognized capacitor for across-the-line, line-by-pass" and antenna-isolation.

3.2 Safety standards approval and recognized no.

Safety Standard	Standard No.	Subclass	w.v.	Recognized No.	
UL	ANSI/UL 60384-14:2013	X1	400VAC	E146544	
_		Y1	250VAC/400VAC		
CSA	IEC60384-14 (ed.4) 2013	X1	400VAC	2347971	
	` ′	Y1	250VAC/400VAC		
VDE	EN 60384-14:2013/A1:2016	X1	400VAC	10001001	
(ENEC)	IEC 6.384-14:2013 IEC 6.384-14:2013/AMD1:2016	Y1	250VAC/400VAC	40001804	
SEV	EN 60384-14:2013 + A1:16	X1	400VAC	21.0554	
SEV	EN 60364-14.2013 + A1.16	Y1	250VAC/400VAC	21.0554	
SEMKO	EN 60384-14:2013+A1	(X1)	400VAC	1811992	
SEWIKO	EN 00384-14:2013+A1	Y1/\	250VAC/400VAC	1011992	
FIMKO	EN 60384-14:2013 + A1:16	X1 /	400VAC	NCS/FI 30462	
FIMIKO	EN 00364-14.2013 + A1.10	Y1	250VAC/400VAC	NCS/FI 30402	
NEMKO	EN 60384-14:2013;A1	X1	400VAC	No. P18222946	
NEWIKO	EN 00304-14.2013,A1	Y1 /	250VAC/400VAC	NO. P18222946	
DEMKO	EN 60384-14:2013/A1:2016	X1	400VAC	D-07609	
DEMIKO	EN 60384-14:2013	Y1	250VAC/400VAC	D-07009	
COC	IEC60384-14:2013+AMDI:2016	X1:400	OVAC /Y1:400VAC	CQC03001003673	
CQC	GB/T6346.14-2015	X1:400	OVAC /Y1:250VAC	CQC11001055510	
	KC60384-1(2015-09)	Magant Xann	400VAC	SU03065-14004A	
KTL	KC60384-14(2015-09)	YYUNTU	250VAC	SU03065-14005A	
	IEC 60384-14(ed.3)	Y1	400VAC	SU03065-14006A	



SAFETY STANDARDS REGULATED, REINFORCED	DOE D10 00 E 24	V 24	D 7 / 17
INSULATION TYPE, AH SERIES	POE-D10-00-E-24	ver: 24	Page: // 1/

4. Specification and test method:

- 4.1 Operating Temperature Range: -40 to +125°C
- 4.2 Test condition:

Test and measurement shall be made at the standard condition. (temperature $15\sim35^{\circ}$ C, relative humidity $45\sim75\%$ and atmospheric pressure $860\sim1060$ hpa). Unless otherwise specified herein.

If doubt occurred on the value of measurement, and measurement was requested by customer capacitors shall be measured at the reference condition. (temperature $20\pm2\,^\circ\text{C}$ or $25\pm2\,^\circ\text{C}$, relative humidity $60\sim70\%$ and atmospheric pressure $860\sim1060$ hpa.)

4.3 Performance:

No	Items		Performance	Testing method	
4.3.1	Appearance And dimension		No visible defect, and dimensions are within specified range.	The capacitor should be visually inspected for evidence of defect. Dimensions should be measured with slide calipers.	
4.3.2	Ma	rking	To be easily legible.	The capacitor should be visually inspected.	
		Between terminals	No failure.	The capacitors shall not be damage when AC4000V (rms.) are applied between the lead wires for 60sec. (Charge/Discharge current ≤ 50mA.)	
4.3.3	Dielectric Strength	Body Insulation	No failure.	First, the terminals of the capacitor should be connected together. Then, a metal foil should be closely wrapped around the body of the capacitor to the distance of about 3 to 6mm from each terminal. Then, the capacitor should be inserted into a container filled with metal balls of about 1mm diameter. Finally, AC4000V (r.m.s.)<50/60Hz> is applied for 60 s between the capacitor lead wires and metal balls. (Charge/Discharge current ≤ 50mA.)	
4.3.4	Insulation Resistance	Between terminals	10000MΩ or more.	The insulation resistance shall be measured with DC500±50V within 60±5sec of charging.	
4.3.5	Capa	citance	Within specified tolerance.	Y5P: The capacitance should be measured at 20°C with 1±0.2kHz and AC5V(r.m.s.) max.	
4.3.6		ipation or(tanδ)	Y5P: D.F. ≤ 2.5%		
		perature cteristic	Char. Capacitance Change Y5P Within ± 10%	The capacitance measurement shall be made at each step specified in Table 1.	
				Step 1 2 3 4 5	
4.3.7				Temp.(°C) +20±2 -25±2 +20±2 +85±2 +20±2	
				Pre-treatment: Capacitor shall be stored at 125±2°C for 1hour, then placed at *1room condition for 24±2hours before measurements.	
4.3.8	Solderability of Leads		Lead wire should be soldered with uniform coating on the axial direction over 3/4 of the circumferential direction.	The lead wire of capacitor should be dipped into molten solder for 5 ± 0.5 sec. The depth of immersion is up to about 1.5 to 2.0 mm from the root of lead wires. Temp. of solder: Lead Free Solder (Sn-3Ag-0.5Cu) $245\pm5^{\circ}\text{C}$	

[%] "room condition" temperature : 15~35°C, humidity : 45~75%, atmospheric pressure : 86~106kPa

^{※ &}quot;C" expresses nominal capacitance value (pF).



SAFETY STANDARDS REGULATED, REINFORCED INSULATION TYPE, AH SERIES

POE-D10-00-E-24

Ver: 24

Page: 8 / 17

No	Items		Performance	Testing method
110	Titell	Tensile	Lead wire shall not cut off capacitor shall not be broken.	As shown in the figure at right, fix the body of the capacitor and apply a tensile weight gradually to each lead wire in the radial direction of the capacitor up to 10N and keep it for 10±1 sec.
4.3.9	Robustness of Terminations	Bending	Lead wire shall not cut off. Capacitor shall not be broken.	With the termination in its normal position, the specimen is held by its body in such a manner that the axis of the termination is vertical; a mass applying a force of 5N is then suspended from the end of the termination. The body of the specimen is then inclined, within a period of 2 to 3sec, through an angle of approximately 90 in the vertical plane and then returned to its initial position over the same period of time; this operation constitutes one bend. One bend immediately followed by a second bend in the opposite direction.
		Appearance	No marked defect.	As shown in figure, the lead wires should be immersed in solder of 350 ± 10 °C or 260 ± 5 °C up to 1.5 to 2.0 mm from
		I.R.	1000 MΩ min.	the root of terminal for 3.5 ± 0.5 sec (10 ± 1 sec. for 260 ± 5 °C).
		Dielectric Strength	Per item4.3. 3	Thermal Capacitor
4.3.10	Soldering Effect (Non-Preheat)	Capacitance Change	Y5P: Within ±10 %	Pre-treatment: Capacitor shall be stored at 125±2°C for 1hour.then placed at *1 room condition for 24±2hours before initial measurements. Post-treatment: Capacitor shall be stored for 1 to 2hours at *1 room condition.
	Soldering	Appearance	No marked defect. 1000 MΩ min.	First the capacitor should be stored at 120+0/-5 °C for 60 +0/-5 sec. Then, as in figure, the lead wires should be immersed solder of 260+0/-5 °C up to 1.5 to 2.0 mm from the root of terminal for 7.5+0/-1 sec. Thermal Capacitor Screen 1.5 to 2.0 mm Molten
4.3.11	Effect	Dielectric	Per item 4.3.3	Solder
	(On-Preheat)	Strength Capacitance Change	Y5P: Within ±10 %	Pre-treatment: Capacitor shall be stored at 125±2°C for 1hour.then placed at *1room condition for 24±2hours before initial measurements. Post-treatment: Capacitor shall be stored for 1 to 2hours at *1room condition.

 [&]quot;room condition" temperature : 15~35℃, humidity : 45~75%, atmospheric pressure : 86~106kPa

[&]quot;C" expresses nominal capacitance value (pF).



SAFETY STANDARDS REGULATED, REINFORCED	
INSULATION TYPE, AH SERIES	

POE-D10-00-E-24

Ver: 24

Page: 9 / 17

No	Iten	ns	Performance	Testing method
		1	No marked defect.	Set the capacitor for 500±12hours at 40±2°C in 90 to 95%
4.3.12	Humidity (Under steady State)	Capacitance Change	Y5P: Within ±10%	relative humidity. Then capacitor shall be stored for 1 to 2 hours at * 1 room condition. Pre-treatment: Capacitor shall be stored at 125±2°C for 1 hour.then placed at * 1 room condition for 24±2 hours.
		D.F.	Y5P: 5.0% max.	Post-treatment: Capacitor shall be stored for 1 to 2hours at *1room condition.
	Humidity	I.R.	Y5P: 3000MΩ min.	Apply the rated voltage for 500±12 hours at 40±2°C in 90 to 95% relative humidity Pre-treatment: Capacitor shall be stored at 125±2°C for 1hour.then
4.3.13	Loading	Dielectric Strength	Per Item 4.3.3	placed at *1 room condition for 24±2hours. Post-treatment: Capacitor shall be stored for 1 to 2hours at *1 room condition.
		Appearance	No marked defect.	Impulse Voltage Each individual capacitor shall be subjected to 8kV
		Capacitance Change	Y5P: Within ±20%	impulses for three times. After the capacitors are applied to life test.
		I.R.	3000MΩ min.	0.9Vp (us) (us) (us) (us) (us) (us) (us) (us)
4.3.14	Life	Dielectric Strength	PSA PASSIVE SYSTEM ALL	The specimen capacitors are placed in a circulating air oven for a period of 1000 hours. The air in the oven is maintained at a temperature of
			Per Item 4.3.3 nology CORPOR	125±3°C. Throughout the test, the capacitors are subjected to an AC425Vrms.(for 0AH type) or AC680Vrms.(for 1AH type) alternating voltage of mains frequency.
				Pre-treatment: Capacitor shall be stored at 125±2°C for 1hour.then placed at *1room condition for 24±2hours. Post-treatment: Capacitor shall be stored for 1 to 2hours at *1room condition.

[%] "room condition" temperature : 15~35°C , humidity : 45~75% ,atmospheric pressure : 86~106kPa

[&]quot;C" expresses nominal capacitance value (pF).



SAFETY STANDARDS REGULATED, REINFORCED INSULATION TYPE, AH SERIES

POE-D10-00-E-24

Ver: 24 | Page: 10 / 17

No	Items	Performance	Testing method
4.3.15	Active Flammability	The cheesecloth shall not be on fire.	The specimens shall be individually wrapped in at least one but more than two complete layers of cheesecloth. The specimens shall be subjected to 20 discharges. The interval between successive discharges shall be 5 sec. The UAC shall be maintained for 2 min after the last discharge. C1,2: 1µF±10% C1,2: 1µF±10% C3: 0.033µF±5% 10kV C4: 3µF±5% 10kV C5: C4: C4: C4: C4: C4: C4: C4: C4: C4: C4
4.3.16	Passive Flammability	The burning time shall not be exceeded the time 30 sec. The tissue paper shall not ignite.	The capacitor under test shall be held in the position which best promotes burning. Each specimen shall only be exposed once to flame. Time of exposure to flame: 30sec. Length of flame: 12±1mm Gas burner: Length 35mm min. Inside Dia.: 0.5±0.1mm Outside Dia.: 0.9mm max. Gas: Butane gas Purity 95% min. Test specimen About 10mm thick board
4.3.17	Temperat ure Cycle Char. Cap Chan Y5P ≤±100 I.R. Dielectric strength	ge DF % DF≦5.0% 3000MΩ min.	The capacitor should be subjected to 5 temperature cycles, <temperature 5cycles="" cycle="" time:=""> Step Temperature(°C) Time(min) 1</temperature>

[&]quot;room condition" temperature : $15\sim35^{\circ}$ C, humidity : $45\sim75\%$, atmospheric pressure : $86\sim106$ kPa

[&]quot;C" expresses nominal capacitance value (pF).



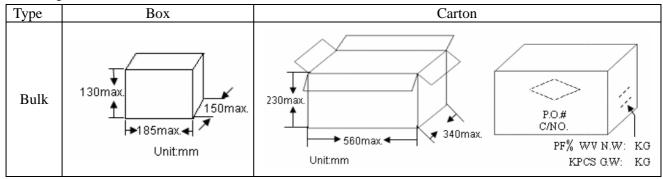
SAFETY STANDARDS REGULATED, REINFORCED **INSULATION TYPE, AH SERIES**

POE-D10-00-E-24

Ver: 24 | Page: 11 / 17

5.Packing Baggage:

5.1 Packing size:



5.2 Packing quantity:

Packing type	Lead length	Size code of 10th to 11th in SAP P/N	MPQ (Kpcs/Bag)	Kpcs/Box
	Long lead	06~12	0.5	1.5
	$(L \ge 20 \text{mm})$	13-15	0.5	1
Bulk	Short lead	06~14	0.5	2
_	(L < 20 mm)	15	0.2	1
	All	16	0.2	1

5.3 Label samples





SAFETY STANDARDS REGULATED, REINFORCED POE-D10-00-E-24 Ver: 24 | Page: 12 / **INSULATION TYPE, AH SERIES**

6. Notices:

6.1 Caution (Rating):

(1). Operating Voltage

Be sure to maintain the Vp-p value of the applied voltage or the Vo-p which contains DC bias within the rated voltage range.

When the voltage is started to apply to the circuit or it is stopped applying, the irregular voltage may be generated for a transit period because of resonance or switching. Be sure to use a capacitor within rated voltage containing this irregular voltage.

Voltage	DC Voltage	DC+AC Voltage	AC Voltage
Positional measurement	V0-p	Vo-p	Vp-p

(2). Operating Temperature and Self-generated Heat

Keep the surface temperature of a capacitor below the upper limit of its rated operating temperature range. Be sure to take into account the heat generated by the capacitor itself.

(3). Test condition for withstanding Voltage

I. Test Equipment

Test equipment for AC withstanding voltage shall be used with the performance of the wave similar to 50/60 Hz sine waves.

If the distorted sine wave or over load exceeding the specified voltage value is applied, the defective may be caused.

Voltage Applied Method

When the withstanding voltage is applied, capacitor's lead or terminal shall be firmly connected to the output of the withstanding voltage test equipment, and then the voltage shall be raised from near zero to the test voltage.

If the test voltage without the raise from near zero voltage would be applied directly to capacitor, test voltage should be applied with the *zero cross. At the end of the test time, the test voltage shall be reduced to near zero, and then capacitor's lead or terminal shall be taken off the output of the withstanding voltage test Voltage sine wave equipment.

If the test voltage without the raise from near zero voltage may arise, and therefore, the defective may be

voltage would be applied directly to capacitor, the surge 0V zero cross caused.

ZERO CROSS is the point where voltage sine wave pass 0V.- See the right figure.



SAFETY STANDARDS REGULATED, REINFORCED INSULATION TYPE, AH SERIES

POE-D10-00-E-24 Ver: 24 Page: 13 / 17

III. Applied voltage

The voltages of Table shall be applied between the respective measuring points of 1 min for qualification approval and periodic testing and for a period of not less than 1 s for lot-by-lot quality conformance testing, a voltage proof test such as Test C shall be carried out only for qualification approval tests and periodic tests;

Attention is drawn to the fact that repetition of the voltage proof test by the user may damage the capacitor. If repetition of the voltage proof test is made by the user, the applied voltage should not be greater than 66 % of the test voltage specified in Table .

Table -Voltage proof

Class	Range of rated voltages	Test A	Test B or Test C
X1	≤1 000 V	4,3 UR (d.c.) c	2 <i>U</i> R + 1 500 V (a.c.) with a minimum of 2 000 V (a.c.) a
Y1	≤500 V	4 000 V (a.c.)	4 000 V (a.c.)

a For Delta and T-connected capacitor units according to Figures 5b and 5c, the test voltage for terminals to case shall be the appropriate test voltage for the Y-capacitors. b The UR in this d.c. test is the rated a.c.voltage value.

Note:

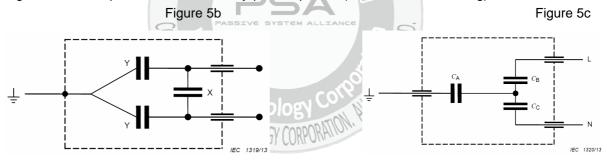
Test A - Between terminations

Test B - Internal insulation

Test C – External insulation (applicable only to insulated capacitors in nonmetallic case or in insulated metal case)

Figure 5b - Delta by-pass capacitor (in metallic housing)

Figure 5c – Example of a T-connected by-pass capacitor (in non-metallic housing)



*For capacitors with non-metallic housings, the earth connection is brought out as a separate termination as is shown in Figure 5c.

(4). Fail-Safe

When capacitor would be broken, failure may result in a short circuit. Be sure to provide an appropriate fail-safe function like a fuse on your product if failure would follow an electric shock, fire or fume.

Failure to follow the above cautions may result, worst case, in a short circuit and cause fuming or partial dispersion when the product is used.



SAFETY STANDARDS REGULATED, REINFORCED INSULATION TYPE, AH SERIES

POE-D10-00-E-24 Ver: 24 Page: 14 / 17

6.2 Caution (Storage and operating condition):

Operating and storage environment

The insulating coating of capacitors does not form a perfect seal; therefore, do not use or store capacitors in a corrosive atmosphere, especially where chloride gas, sulfide gas, acid, alkali, salt or the like are present. And avoid exposure to moisture. Before cleaning, bonding, or molding this product, verify that these processes do not affect product quality by testing the performance of a cleaned, bonded or molded product in the intended equipment. Store the capacitors where the temperature and relative humidity do not exceed -10 to 40 degrees centigrade and 15 to 85 % for 6 months maximum and use within the period after receiving the capacitors.

"Failure to follow the above cautions may result, worst case, in a short circuit and cause fuming or partial dispersion when the product is used."

6.3 Caution (Soldering and Mounting):

6.3.1 Vibration and impact:

Do not expose a capacitor or its leads to excessive shock or vibration during use.

6.3.2 Soldering

When soldering this product to a PCB/PWB, do not exceed the solder heat resistance specification of the capacitor. Subjecting this product to excessive heating could melt the internal junction solder and may result in thermal shocks that can crack the ceramic element.

When soldering capacitor with a soldering iron, it should be performed in following conditions.

Temperature of iron-tip: 400 degrees C. max.

Soldering iron wattage: 50W max.

Soldering time: 3.5 sec. max.

6.3.3 Cleaning (ultrasonic cleaning):

To perform ultrasonic cleaning, observe the following conditions.

Rinse bath capacity: Output of 20 watts per liter or less.

Rinsing time:5 min maximum.

Do not vibrate the PCB/PWB directly.

Excessive ultrasonic cleaning may lead to fatigue destruction of the lead wires.

"Failure to follow the above cautions may result, worst case, in a short circuit and cause fuming or partial dispersion when the product is used."



SAFETY STANDARDS REGULATED, REINFORCED	DOE D10 00 E 24	X7 04	D	1.7	/ 17
INSULATION TYPE, AH SERIES	POE-D10-00-E-24	ver: 24	Page:	15	/ 1/

6.3.4 List of substances that affect the insulation strength of coating:

Epoxy resin solvent

Category	Model			
Ketone	Acetone	Butanone	Cyclohexanone	
Esters	Ethyl acetate	Dibutyl phthalate		
Chlorinated hydrocarbons	Dichloromethane			

Epoxy resin thinner

Category		Model		
		HK-66 (Alkyl glycidyl ether)		
	Simple function group	501 (Butyl glycidyl ether)		
		690 (Phenyl Glycidyl Ether)		
		AGE (C12-14Aliphatic Polyalcohol Glycidyl Ether)		
		692 (Benzyl Glycidyl Ether)		
Reactive diluentactivated thinner	Two functional groups	D-678 (Neopentyl glycol diglycidyl ether)		
		622 (1,4-Butanediol diglycidyl ether)		
		669 (Ethylene glycol diglycidyl ether)		
		X-632 (Polypropylene glycol diglycidyl ether)		
		X-652 (1,6-Hexadiol diglycidyl ether)		
		D-691Epoxypropane o-methylphenyl ether		
		Anhydrous	Toluene	
		ethanol	Toruciic	
	水石 信	Ethyl acetate	Dimethylbenzene	
Non-activated th	inner	Dimethyl	Butyl acetate	
/	大路份文	formamide	Butyr acctate	
HIT AND TO SEE THE PARTY OF THE		Acetone	Styrene	
		-Polyol	Benzyl alcohol	

Note: The above substances should not contact the coating of the product body, otherwise it will affect the insulation strength of the product

6.4 Caution (Handling):

Vibration and impact

Do not expose a capacitor or its leads to excessive shock or vibration during use.

"Failure to follow the above cautions may result, worst case, in a short circuit and cause fuming or partial dispersion when the product is used."



SAFETY STANDARDS REGULATED, REINFORCED INSULATION TYPE, AH SERIES

POE-D10-00-E-24 Ver: 24 Page: 16 / 17

7. Soldering Recommendation:

7.1 Wave Soldering Profile:

- Temperature conditions of the flow is recommended as shown in the chart
- Must implement the pre-heat
- Maximum peak flow temperature is recommended 265°C
- \bullet Time "T" implement in the chart recommended within 20 sec. it temperature exceed 200°C
- Take care with the flow solder not to touch the capacitor body directly at mounting

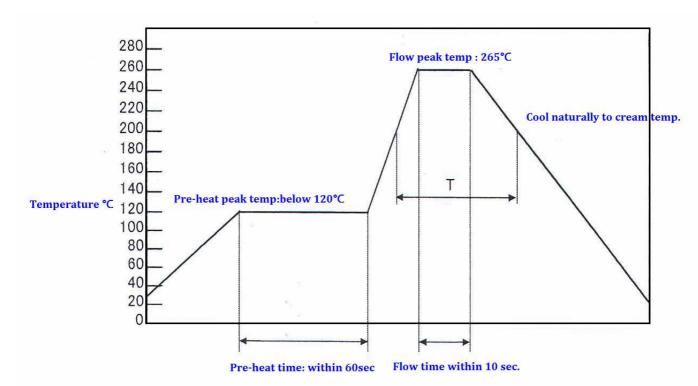


Chart to show flow recommended temp

7.2 Recommended Reworking Conditions with Soldering Iron:

- Temperature of iron-tip: 400 degrees C. max.
- Soldering iron wattage: 50W max.
- Soldering time: 3.5 sec. max.
- Distance from coating body: 2 mm (min.)

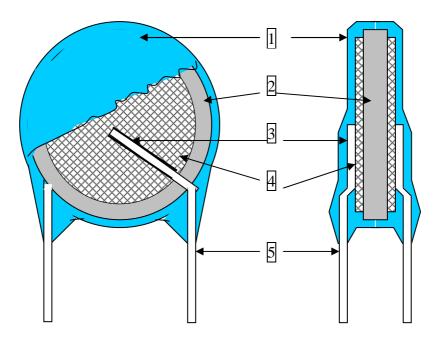
7.3 Reflow-Soldering: Lead Ceramic Cap. should not be soldered by reflow-soldering.



SAFETY STANDARDS REGULATED, REINFORCED INSULATION TYPE, AH SERIES

POE-D10-00-E-24 Ver: 24 Page: 17 / 17

8. Drawing of internal structure and material list:



Remarks:

No.	Part name	Material	Model/Type	Component
1	Insulation Coating	Epoxy polymer	EF-150 PCE-300 ECP-357	Epoxy resin、Pigment (Blue / UL 94 V-0) The minimum thickness of coating (reinforced insulation) is 0.4mm
2	Dielectric Element	Ceramic	Y5P	BaTiO ₃
3	Solder	Tin-silver	Sn96.5-Ag3-Cu0.5	Sn96.5-Ag3-Cu0.5
4	Electrodes	Ag	SP-160PL SP-260PL	Silver · Glass frit
5	Leads wire	Tinned copper clad steel wire	0.55±0.05mm	Substrate metal: Fe & Cu Surface plating: Sn 100%(3~7μm)