		POE-D11-00-E-06
CERAMIC DISC CAPACITOR SAFETY RECOGNIZED,		Page: 1 / 19
AC SERIES	Ver : 6	rage. 17 19

	PRODUCT SPECIFICAT	ION
	PRODUCT: CERAMIC DISC CAPACITO SAFETY RECOGNIZED	R
	TYPE: AC SERIES	
C	CUSTOMER:	
	DOC. NO.: POE-D11-00-E-06	
	Ver.: <u>6</u>	
	APPROVED BY CUSTOMER	
	DOR : ALSIN TECHNOLOGY CORPORATION	
566-1, K ГАО-YU РА NO.277, GUANG	ALSIN TECHNOLOGY CORFORATION AO SHI ROAD,YANG-MEI JAN, TAIWAN N OVERSEAS (GUANGZHOU) ELECTRONIC CO.,LTD. HONG MING ROAD,EASTERN SECTION, 3 ZHOU ECONOMIC AND TECHNOLOGY OPMENT ZONE,CHINA	ALSN
MAKI 10.277, JUANG	ER : PAN OVERSEAS (GUANGZHOU) ELECTRONIC CO.,LTD. HONG MING ROAD,EASTERN SECTION, ZHOU ECONOMIC AND TECHNOLOGY OPMENT ZONE,CHINA	



CERAMIC DISC CAPACITOR SAFETY RECOGNIZED,

AC SERIES

Page: 2 / 19

Ver:6

Record of change

Date	Version	Description	page
2008.6.3	1	1. D23-00-E-01(before) \rightarrow POE-D11-00-E-01(1 st edition)	
2008.8.22	2	1 Complete lead code	20
		2. Add last SAP code "H" for halogen and Pb free, epoxy resin	3
2008.12.12	3	1.Complete the 13 th to 17 th codes of SAP P/N.	4
		2. Page layout adjustment.	
2009.7.16	4	1 Change PSA & POE logo to Walsin & POE logo.	
		2.Complete Marking statement.	9
		3. Revised standard NO. of SEV, SEMKO, FIMKO, NEMKO, DEMKO	11
		and KEMA.	
		Revised recognized NO. of FIMKO, NEMKO, DEMKO, KEMA and	
		CQC.	
		4. Downsize :	6
		$YP0AC101K080^{**} \rightarrow YP0AC101K060^{**}$	
		YP0AC102K100** → YP0AC102K080**	
		$YV0AC152M080^{**} \rightarrow YV0AC152M060^{**}$	
2009.9.14	5	1. "Protrusion length": "+0.5 to-1.0" revised to "2.0max (Or the end of	9
		lead wire may be inside the tape.)"	
2009.12.24	6	1. Marking	10
		2. Correct recognized No	11
		3. Revised the Figure of impulse voltage test(Item 7.3.14) according to	14
		the standard IEC 60384-14 ed.3	

		POE-D11-00-E-06	
CERAMIC DISC CAPACITOR SAFETY RECOGNIZED,	Ver : 6	Page: 3 / 19	

AC SERIES

Page: 3 / 19

Table of Contents

No.	Item	Page
1	Part number for SAP system	4/19
2	Mechanical	5/19
3	Part numbering/T.C/Capacitance/ Tolerance/Diameter	6/19~7/19
4	Taping Format	8/19~9/19
5	Marking	10/19
6	Scope	11/19
7	Specification and test method	12/19~15/19
8	Packing specification	16/19
9	Notices	17/19~19/19

		POE-D11-00-E-06
CERAMIC DISC CAPACITOR SAFETY RECOGNIZED, AC SERIES	Ver : 6	Page: 4 / 19

1. Part number for SAP system

①Temperature characteristic (identified code)

CODE	CH(NP0)	SL	YP (Y5P)	YV(Y5V)	YU (Y5U)
Cap. Change	0±60PPM/°C	-1000~+350PP M/°C	±10%	-80% ~ +30%	-55% to +20%

2 TYPE (identified by 3-figure code) : 0AC = AC TYPE (X1/Y2)

€Capacitance (identified by 3-figure code) : EX.221=220pF

Gapacitance tolerance (identified by code) : C:±0.25pF, D:±0.5pF, J:±5%, K:±10%, M:±20%

Solution Nominal body diameter dimension (identified by 3-figure code)

G Lead Style : Refer to "2. Mechanical".

Packing mode and lead length (identified by 2-figure code)

Taping Code	Description
AF	Box and Pitch : 15.0 mm
AM	Box and Pitch : 25.4 mm
AT	Box and Pitch: 30.0 mm

Bulk Code	Description
3E	Lead length : 3.5mm
04	Lead length : 4.0mm
4E	Lead length : 4.5mm
25	Lead length : 25.0mm

8 Length tolerance

Code	Description	
А	±0.5 mm	
	(only for kink lead type)	
В	±1.0 mm	
C	MIN.	
D	Taping special purpose	

9Pitch

Code	Description
7	7.5±1 mm
0	10±1 mm

DEpoxy Resin Code

Code	Description
В	Pb free, Epoxy Resin
Н	Halogen and Pb free , epoxy resin.



CERAMIC DISC CAPACITOR SAFETY RECOGNIZED,

AC SERIES

Page: 5 / 19

Ver:6

2. Mechanical

Encapsulation : Epoxy resin, flammability UL94 V-0

Available lead code(unit: mm)

Lead type	SAP P/N (13-17)digits	Old P/N (Ref. to "3.1 old P/N")	Pitch (F)	Lead Length (L)	Packing	Lead Configuration
Lead style : L	L25C7	L7	7.5 ±1.0	25 MIN.	D 11	
Type L Straight long lead	L25C0	L0	10 ± 1.0	25 MIN.	Bulk	\$4
Lead style : B	BAFD7	L7F				Dmax, Tmax.
Type B Straight long lead	BATD7 / BATD0	L7T / L0T	Refer to "4. Taping format"		Tap. Ammo	A.H.
	BAMD0	L0M				\$d
Lead style : L	L03B7	S7	7.5 ± 1.0	3.0 ± 1.0		
	L4EB7	S7	7.5 ± 1.0	4.5 ± 1.0		Dmax. Tmax.
Type L	L05B7	P16	7.5 ± 1.0	5.0 ± 1.0		
	L03B0	SO	10 ± 1.0	3.0 ± 1.0	Bulk	() c c
Straight short lead	L4EB0	SO	10 ± 1.0	4.5 ± 1.0	Duik	
	L05B0	А	10 ± 1.0	5.0±1.0		
Lead style : D	D3EA7	D2	7.5 ± 1.0	3.5 ± 0.5	-	Dmax. Tmax.
	D04A7	D7	7.5 ± 1.0	4.0 ± 0.5	Bulk	× O×
Type D	D3EA0	D3	10 ± 1.0	3.5 ± 0.5		H H H H H H H H H H H H H H H H H H H
	D04A0	D0	10 ± 1.0	4.0 ± 0.5	Tap.	
Vertical kink lead	DAFD7 DATD7 / DATD0	D7F D7T / D0T	Refer to	o "4. Taping		
	DAID//DAID0 DAMD0	D/1/D01 D0M	format"		Ammo	
Lead style : X	X3EA7	Q2	7.5 ± 1.0	3.5 ± 0.5		
Loud Style · M	X04A7	<u> </u>	7.5 ± 1.0 7.5 ± 1.0	4.0 ± 0.5	-	Dmax. Tmax.
	X05B7	X2	7.5 ± 1.0	5.0 ± 1.0	D 11	
Type X	X3EA0	Q3	10 ± 1.0	3.5 ± 0.5	Bulk	5.0max
Outside kink lead	X04A0	X0	10 ± 1.0	4.0 ± 0.5		
	X05B0	X3	10 ± 1.0	5.0 ± 1.0		R R RA
	XAFD7	X7F	Defent	"1 Tamina	Tom	
	XATD7 / XATD0	X7M / X0M		o "4. Taping ormat"	Tap. Ammo	
	XAMD0	X0M	10	nmai	AIIIII0	
Lead style : H	H3EA7	H2A	7.5±1.0	3.5±0.5 mm	Bulk	Dmax. Tmax.
Type H Inside kink lead	H3EA0	НЗА	10.0±1.0 3.5±0.5 mm		5.0max	
Inside kilk lead	HATD0	H0T Refer to "4. Taping Tap.				
	HAMD0	H0M	fo	ormat"	Ammo	

* Lead diameter Φ d: 0.60 +0.1/-0.05

* Coating extension on leads): 3.0mmMax for straight lead lead style; Not exceed the kink for kink lead.



POE-D11-00-E-06

CERAMIC DISC CAPACITOR SAFETY RECOGNIZED,

AC SERIES

Ver:6

Page: 6 / 19

3. Part numbering/T.C/Capacitance/ Tolerance/Diameter :

POE Part. No.										
		T.C.	Capacitance	Tolerance	D	Т		F	1	
SAP P/N	Old P/N (Refer to 3.1 Old P/N)		-		(max)	(max)	Bulk type	Taping type	φd	
CH0AC***C060*	AC06CH***C*		2, 3,4, 5(pF)	±0.25pF	7.0					
CH0AC***D060*	AC06CH***D*		6,7,8,9,10(pF)	±0.5pF	7.0					
CH0AC***J060*	AC06CH***J*	СН	12,15(pF)	±5%	7.0					
CH0AC***J070*	AC07CH***J*	(NP0)	18,20,22, 24(pF)	$\pm 5\%$	8.0					
CH0AC***J080*	AC08CH***J*	()	27,30,33,(pF)	$\pm 5\%$	9.0					
CH0AC390J090*	AC09CH390J*		36,39(pF)	±5%	10.0					
CH0AC470J100*	AC10CH470J*		47(pF)	$\pm 5\%$	11.0					
SL0AC***J060*	AC06SL***J*		10,12,15,18,20,22, 24,27,30,33, 36,39,47,50,51(pF)	±5%	7.0					
SL0AC***J070*	AC07SL***J*	SL	56,62, 68,75(pF)	±5%	8.0					
SL0AC820J080*	AC08SL820J*		82pF	±5%	9.0			7.5±1		
SL0AC101J090*	AC09SL101J*		100pF	±5%	10.0					
YP0AC101K060*	AC06B101K*		100 pF	±10%	7.0					
YP0AC151K080*	AC08B151K*		150 pF	±10%	9.0					
YP0AC221K080*	AC08B221K*		220 pF	±10%	9.0					
YP0AC331K080*	AC08B331K*		330 pF	±10%	9.0					
YP0AC471K060*	AC06B471K*	Y5P	470 pF	±10%	7.0		7.5±1,		0.60	
YP0AC561K080*	AC08B561K*		560pF	±10%	9.0	5.0	10±1		+0.10	
YP0AC681K090*	AC09B681K*		680 pF	±10%	10.0				- 0.05	
YP0AC821K100*	AC10B821K*		820 pF	±10%	11.0					
YP0AC102K080*	AC08B102K*		1000 pF	±10%	9.0					
YU0AC102M060*	AC06E102M*		1000 pF	±20%	7.0					
YU0AC152M100*	AC100E152M*		1500 pF	±20%	11.0					
YU0AC222M080*	AC08E222M*	Y5U	2200 pF	±20%	9.0			7.5±1		
YU0AC332M100*	AC10E332M*	150	3300 pF	±20%	11.0					
YU0AC392M120*	AC12E392M*		3900 pF	±20%	13.0					
YU0AC472M120*	AC12E472M*		4700 pF	±20%	13.0			10±1		
YV0AC102M060*	AC06F102M*		1000 pF	±20%	7.0					
YV0AC152M060*	AC06F152M*		1500 pF	±20%	7.0					
YV0AC222M060*	AC06F222M*	1	2200 pF	±20%	7.0					
YV0AC332M080*	AC08F332M*	VEV	3300 pF	±20%	9.0	1		7.5±1		
YV0AC392M110*	AC11F392M*	Y5V	3900 pF	±20%	12.0					
YV0AC472M100*	AC10F472M*	1	4700 pF	±20%	11.0					
YV0AC682M120*	AC12F682M*		6800 pF	±20%	13.0					
YV0AC103M140*	AC14F103M*	1	10000 pF	±20%	15.0			10±1		
Graph (ex.)		unit : mr	(re	e minimum einforced in			-			



POE

CERAMIC DISC CAPACITOR SAFETY RECOGNIZED,

AC SERIES

Ver: 6

Page: 7 / 19

3.1 Old P/N :

(Ex.) <u>A</u>C 10 F 472 M <u>L</u> 7 __F_ TPYE (1)(2)(3) (4) (5) (6) (7)

(1)Nominal body diameter dimension

(2)Temperature characteristic (identified code):

CH(NP0):0±60PPM/°C, SL: +350~-1000PPM/°C, B(Y5P):±10%,

E(Y5U):-55% ~ +20%, F(Y5V) :-80% ~ +30%

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

(4)Capacitance tolerance (identified by code): C:±0.25pF, D:±0.5pF, J:±5%, K:±10%, M:±20%

(5)Lead style (configuration) (identified by code) –

L: straight long lead

S: straight short lead

D: vertical kink lead

X: outside kink lead

B: inside kink lead

(6)Lead Space:

 $7 = 7.5 \pm 1.0 \text{ mm}$

 $0=10\pm1.0$ mm

(7)Taping type or other code

Code	Pitch component
F	15.0 mm
М	25.4 mm
Т	30.0 mm
No code	BULK





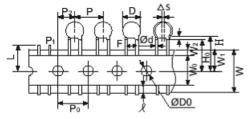
Page: 8 / 19

AC SERIES

4. Taping Format

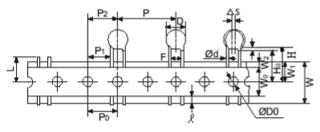
15mm pitch/lead spacing 7.5mm taping





• 30mm pitch/lead spacing 10.0mm taping

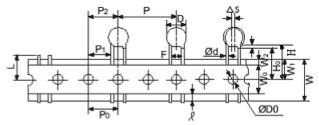
Lead Code: *DATD0 & *XATD0 & *HATD0 & *BATD0



25.4mm pitch/lead spacing 10.0mm taping

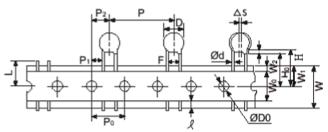
Lead Code: *DAMD0 & *XAMD0 & *HAMD0 & *BAMD0

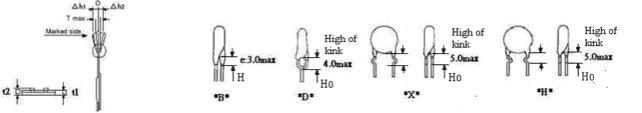
Ver: 6



30mm pitch/lead spacing 7.5mm taping

Lead Code: *DATD7 & *XATD7 & *BATD7







CERAMIC DISC CAPACITOR SAFETY RECOGNIZED,

Ver:6

Page: 9 / 19

AC SERIES

POE Part Number		*BATD0 *DATD0 *XATD0	*BAFD7	*DAFD7 *XAFD7	*BATD7 *DATD7 *HATD7 *XATD7	*BAMD0 *DAMD0 *HAMD0 *XAMD0
Item	Symbol	Dimensions (mm)	Dimensions (mm)	Dimensions (mm)	Dimensions (mm)	Dimensions (mm)
Pitch of component	Р	30.0	15.0	15.0	30.0	25.4
Pitch of sprocket	P0	15.0±0.3	15.0±0.3	15.0±0.3	15.0±0.3	12.7±0.3
Lead spacing	F	10.0±1.0	7.5±1.0	7.5±1.0	7.5±1.0	10.0±1.0
Length from hole center to component center	P2	15.0±1.5	7.5±1.5	7.5±1.5	7.5±1.5	12.7 ± 1.5
Length from hole center to lead	P1	10.0±1.0	3.75±1.0	3.75±1.0	3.75±1.0	7.7±1.5
Body diameter	D	See the "3	3. Part numberin	g/T.C/Capacita	nce/ Tolerance/	Diameter"
Deviation along tape, life or right	$\triangle \mathbf{S}$			0±2.0		
Carrier tape width	W			18.0 +1/-0.5		
Position of sprocket hole	W1			9.0±0.5		
Lead distance between the kink and center of sprocket hole	HO	18.0+2.0/-0 For: *DATD0 *XATD0		18.0+2.0/-0	18.0+2.0/-0 For: *DATD7 *XATD7	18.0+2.0/-0 For: *DAMD0 *HAMD0 *XAMD0
Lead distance between the bottom of body and the center of sprocket hole	Н	20.0+1.5/-1.0 For: *BATD0	20.0+1.5/-1.0		20.0+1.5/-1.0 For: *BATD7	20.0+1.5/-1.0 For: *BAMD0
Protrusion length	l	2.0	Omax (Or the end	of lead wire may	y be inside the tap	e.)
Diameter of sprocket hole	D0			4.0±0.2		
Lead diameter	φd		0	.60 +0.1/-0.0	5	
Total tape thickness	t1			0.6±0.3		
Total thickness, tape and lead wire	t2			1.5 max.		
Deviation across tape	<u>h1</u> h2			2.0 max. 2.0 max.		
Portion to cut in case of defect	L			11.0 max.		
Hole-down tape width	W0			11.5min		
Hole-down tape distortion	W2			1.5±1.5		
Coating extension on leads	e	3.0 max for	straight lead sty	le; Not exceed	the kink leads for	or kink lead.
Body thickness	Т	See the "3	3. Part numberin	g/T.C/Capacita	nce/ Tolerance/	Diameter"

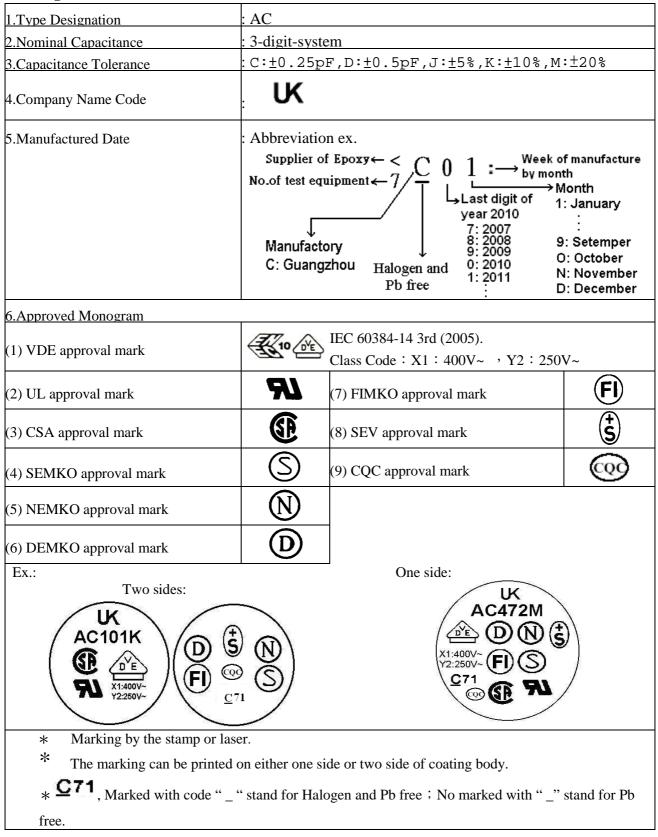


CERAMIC DISC CAPACITOR SAFETY RECOGNIZED,

AC SERIES

Ver:6 F

5.Marking :





Ver: 6

AC SERIES

6. Scope

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

 VDE/SEV/SEMKO/FIMKO/NEMKO/DEMKO/KEMA/UL/CSA recognized capacitor for Antenna coupling and AC line-by-pass.X1, Y2 Capacitor based on IEC 60384-14 3rd Edition (2005) "UL (AC250V), CSA recognized for across-the-line, line-by-pass" and antenna-isolation

2.Approval Standard and Recognized No.

Safety Standard	Standard No.	Subclass	W.V.	Recognized No.
UL	UL 1414	X,Y	250VAC	E146544
CSA	C22.2 NO.1-04	X,Y	250VAC	1363528(LR 92203-1)
VDE (ENEC)	IEC60384-14 (ed. 3) 2005	X1 Y2	400VAC 250VAC	40001829
SEV	IEC60384-14 (ed. 3) 2005	X1 Y2	400VAC 250VAC	09.1153
SEMKO	IEC60384-14 (ed. 3) 2005	X1 Y2	400VAC 250VAC	600117
FIMKO	IEC60384-14 (ed. 3) 2005	X1 Y2	400VAC 250VAC	NCS/FI 24754
NEMKO	IEC60384-14 (ed. 3) 2005	X1 Y2	400VAC 250VAC	P09210633
DEMKO	IEC60384-14 (ed. 3) 2005	X1 Y2	400VAC 250VAC	314839-01
KEMA	IEC60384-14 (ed. 3) 2005	X1 Y2	400VAC 250VAC	2123149.01
CQC	GB/T 14472-1998	X1 Y2	400VAC 250VAC	CQC080010026519
KTL	K60384-14	X1 Y2	400VAC 250VAC	SU03017-4001A SU03017-4002A



AC SERIES

7. Specification and test method

- (1) Operating Temperature Range : -25 to +125°C (-25 to +85°C in case of the standard of UL / CSA)
- (2) Performance Tests

	Item			Specification	Testing Method						
		Between lead wires		No failure.	The capacitors shall not be damage when AC2600V are applied between the lead wires for 60 sec.						
1	Dielectric Strength	Body Insulation		No failure.	First the terminal of capacitor shall be connected together. Then a metal foil shall be closely wrapped around the body of the capacitor distance of about 3 to 4 mm from each terminal. Then the capacitor shall be inserted into a container filled with metal balls or about 1 mm diameter. Finally. AC2600V is applied for 60 sec. between the capacitor lead wires and metal balls.						
2	Insulation Resis	tance(I.R.)	100001	MΩ min.	The insulation resistance shall be measured with 500±50VDC with 60±5sec. of charging.						
3	Capacitance		Within	specified tolerance							
4	Dissipation Fact	or(D.F.) or Q	Char. B,E F CH,SL	Specification D.F $\leq 2.5\%$ D.F $\leq 5.0\%$ Q: 30pF&above: 1000 Below 30PF: \geq 400+20×C	IMHZ±20% and 1.0±0.2Vrms						
5	Temperature C	Characteristic	B E F CH	Capacitance Change Within $\pm 10\%$ Within $\pm {}^{2}_{5}{}^{0}_{5}\%$ Within $-80 \sim +30\%$ 0 ± 60 ppm/°C $-1000 \sim +350$ ppm/°C	The capacitance measurement shall be made at each step specified in table 1. (Table 1) $\begin{array}{r} \hline \\ & \underline{Step} & \underline{Temperature} \\ \hline 1 & \pm 20 \pm 2^{\circ} \underline{C} \\ \hline 2 & -25 \pm 2^{\circ} \underline{C} \\ \hline 3 & \pm 20 \pm 2^{\circ} \underline{C} \\ \hline 4 & \pm 85 \pm 2^{\circ} \underline{C} \\ \hline 5 & \pm 20 \pm 2^{\circ} \underline{C} \\ \hline \end{array}$ Pr-treatment : Capacitor shall be stored at $85 \pm 2^{\circ} \underline{C}$ for 1 hour. Then placed at room condition for $1(\underline{*})24 \pm 2$ hours before measurement						
		Tensile		vire shall not cut off or shall not be broke	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 : the tensile force of 10N shall be applied to the termination in the direction of its axis and acting in a direction away from the body of the specimen.						
6	Robustness of Termination	Bending	capacit	vire shall not cut off for shall not be broke	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 3 sec., through an angle of approximately 90° in the vertical plane and then resumed 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.						

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





POE-D11-00-E-06

CERAMIC DISC CAPACITOR SAFETY RECOGNIZED,

AC SERIES

Page

Ver:6

	Item		Specification	Testing Method
7	Solderability	v 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 2 ± 0.5 sec. The depth of immersion is up to about 1.5 to 2.0 mm from the root of lead wires.
		Appearance I.R. Dielectric Strength	No marked defect 1000MΩ min. Per Item 1.	Temp. of solder : Lead free solder ($Sn-3Ag - 0.5Cu$) $245 \pm 5 ^{\circ}C$ As shown in figure, the lead wires should be immersed in solder of $350 \pm 10 ^{\circ}C$ or $260 \pm 5 ^{\circ}C$ up to 1.5 to 2.0mm from the root of Terminal for 3.5 ± 0.5 sec (10 ± 1 sec for $260 \pm 5 ^{\circ}C$) Thermal Screen, 1.5 to 2.0mm
	Soldering Effect (Non-Preheat)	Capacitance	B,E,F: Within±10% SL,CH: Within±2.5% or ±0.25pF,Whichever is large.	Pre-treatment: Capacitor shall be stored at 85±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.
8		Appearance	No marked defect.	First the capacitor should be stored at $120 + 0 / -5$ °C for $60 + 0 / -5$ sec.
		I.R.	1000MΩ min.	Then, as in figure , the lead wires should be immersed solder of $260 + / -5 \degree$ C up to 1.5 to 2.0 mm from the root of terminal for 7.5 +0 / -1 sec.
	Soldering Effect (On-Preheat)	Dielectric Strength	Per Item 1.	Thermal Capacitor Screen 1.5
		Capacitance	B,E,F: Within±10% SL,CH: Within±2.5% or ±0.25pF,Whichever is large.	Pre-treatment: Capacitor shall be stored at 85±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.

.....**ws**îI

CERAMIC DISC CAPACITOR SAFETY RECOGNIZED,

AC SERIES

Page: 14 / 19

Ver:6

	Item		Specification	Testing Method
9	Humidity (Under Steady State)	Canacitance	No marked defect. Bš Within ±10% Eš Within ±20% Fš Within ±30% SL&CH: Within±2.5 = or ±0.25pF,Whichever is large.	Set the capacitor for 500±12 hours at 40±2 , incego 5% humidity. Then capacitor shall be stored for 1 to 2 hou rscan tn condition.
		D.F.	B,E š 5.0% max. F š 7.5% max.	
10	Humidity Loading	Q	SL&CH: Less than 30pF=> Q 100+10×C/3 More than 30pF=> Q 200	Apply the rated voltage for 500±12 hours at 40±2n 90 to 95% humidity and set it for 1 to 2 hours at room co iodi t
		I.R.	B,E,Fš3000Mè min. SL&CH: 1000Mè min.	
		Appearance	No marked defect.	Impulse Voltage: Each individual capacitor shall be subjected totvaionpulses for
		Capacitance	B,E,Fš Within ±20% SL&CH: Within±3 =or ±0.3pF,W hicheveris large.	three times. After the capacitor shall be subjected to abject the two bipulses for three times. After the capacitors are applied for the st. $\frac{\nabla p}{0.9\nabla p} = \frac{U_{CR}}{\frac{(uF)}{0.01} + \frac{(uS)}{1.00} + \frac{(uS)}{0.01}}$
		I.R.	3000Mè min. SL&CH: 1000Mè min.	
11	Life	Dielectric Strength	Per Item 1.	Fig. The specimen capacitors are placed in a circulating oven for a period of 1000 hrs. The air in the oven is maintedinat a temperature of 125±2 . Throughout the test. Theactagers are subjected to a 425Vrms alternating voltage of maines uency Except that once each hour the voltage id incretage et 000Vrms for 0.1 sec.
12	Flame Test	The capacitor Cycle 1~4 5	flame discharge as follows Time 30 sec, max. 60 sec, max.	The capacitor shall subject to applied for 15 sed finen removed for 15 sec, until 5 cycles. Fig.

á ³room condition" temperaturě 15~35: , humidityš 45~75%, atmospheric pressušre6~106kPa

POE-D11-00-E-06

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	!!	!	ļ	ļ	ļ	!		!	ļ	!	ļ	!	!	ļ	ļ	!		
---	----	---	---	---	---	---	--	---	---	---	---	---	---	---	---	---	--	--

AC SERIES

Page: 15 / 19

Ver:6

	Item	Specification	Testing Method
13	Active Flammability	The cheesecloth shall not be on fire.	The specimens shall be individually wrapped ireatst one but more then two complete layers of cheesecloth. Theeinens sha be subjected to 20 discharges. The interval betweenessive discharges shall be 5sec. The Uac shall be maintain 2 min. after the last discharge. Fig. C1,2š1 f±10% C3š0.03 f±5% 10KV L1-4š1.5Mh±20% 16A Rod core choke R š100 ±2% Ctš3 f±5% 10KV Uacš Ur±5% Urš Rated working voltage Cx šCapacitor FšFuse, Rated 10A Ut šVoltage applied to Ct
14	Passive Flammability	The burning time shall not be exceeded t time 30 sec. The tissue paper shall not ig	

á ^sroom condition" temperaturě 15~35: , humidityš 45~75%, atmospheric pressuže 6~106kPa

		POE-D11-00-E-06
CERAMIC DISC CAPACITOR SAFETY RECOGNIZED,	Ver : 6	Page: 16 / 19
AC SERIES		1 age. 107 19

8. Packing specificationš

Bulk š

When dimension 13" Bulk Packaging is 500pcs/bag. When dimension 13 " Bulk Packaging is 200pcs/bag.

Tapingš 1000pcs/box

		POE-D11-00-E-06
CERAMIC DISC CAPACITOR SAFETY RECOGNIZED,	Ver : 6	Page: 17 / 19
AC SERIES		

9. Notices:

9.1 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.

(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. When the capacitor is used in a high-frequency current, pulse current or the like, it may have the self-generated heat due to dielectric-loss.

Applied voltage should be the load such as self-generated heat is within 20°C on the condition of atmosphere temperature 25°C. When measuring, use a thermocouple of small thermal capacity-K of $\varphi 0.1$ mm and be in the condition where capacitor is not affected by radiant heat of other components and wind of surroundings. Excessive heat my lead to deterioration of the capacitor's characteristics and reliability.

(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.



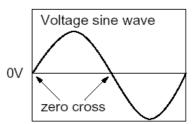
II. Voltage Applied Method

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 equipment.

If the test voltage without the raise from near zero voltage would be applied directly to capacitor, the surge voltage may arise, and therefore, the defective may be caused.

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



(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.

9.2 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 %. Use capacitors within 6 months.

"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."

9.3 Caution (Soldering and Mounting):

9.3.1 Vibration and impact:

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



AC SERIES

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.

9.3.3 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."

9.4 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."

X-ON Electronics

Authorized Distributor

Click to view similar products for Ceramic Disc Capacitors category.

Click to view products by Walsin manufacturer.

Other Similar products are found below :

 S271K4
 S271K25
 408577G
 408561A
 408572F
 530L104KT16T5
 5AS560JCFCA

 5AU100JCECA
 5AU470JCJCA
 5NS471KBDCI
 5SK104MCMAA
 5SR152MNCLM

 5WH103MOCAM
 5YH223MOCAM
 65N103MCLIA
 65N303MCMIA
 6LS102KNHCM

 6LS152KCJCA
 AOL115501
 5AS270JCDCA
 5AS330JCDCA
 5AU330JCGCA

 62O472MCKCC
 6LS221KNDCM
 H8000090245
 5AU330JCGCA