

Dersonic®		編號DOC NO.: DEC-SA-WI001
		版本REV.: B/2
安規陶瓷電容器	器規格承認書	日期DATE: 2023年10月25日
APPROVAL SPECIFICATION FOR SA	AFETY CERAMIC CAPACITORS	頁碼PAGE: 1/14
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請確保我們的產品安裝到您的產品上前,已根據您的需求進行了評估。 Please make sure that your product has been evaluated in view of your specifications with our product being mounted to your product. 請您在使用我們的產品時,不要偏離此標準。 You are requested not to use our product deviating from this specification.

Dersonic®		編號DOC NO.:	DEC-SA-WI001			
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安規陶瓷電容器		日期DATE:	2023年10月25日			
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1. 規格表 Data sheet						
	$\begin{bmatrix} & & \\ & $	RC 47J CQC cAus 5/21/C				
產品編碼 Part number	CY24/UJD1IEB45XZA8					
規格描述 Description	YZ/4/PF/J/F7.5/直脚/LZ4/环氧(监)/Y5P/5	Y2/47PF/J/F7.5/直脚/L24/环氧(蓝)/Y5P/5X/ZNRC/250V~				
客戶料號 Customer P/N						
安規類別 Safety subclass						
工作溫度範圍 Operating temperature range	-40°C ~ +125°C					
額定電壓 Rated voltage	250V~					
電容量 Capacitance						
損耗角正切 Tangent of loss angle	0.025 max @ 1MHz 1V 25℃					
耐電壓 Testing voltage	2500VAC (Charge/discharge 50mA max), 60s, PASS					
絕緣電阻 Insulation resistance						
溫度特性 Temperature characteristics						
氣候類別 Climatic category	40/123/21					
阻燃等級 Passive flammability category						
D (Diameter)	6.0 mm±1.0mm					
T (Thickness)	3.4 mm±0.8mm					
F (Lead spacing)	7.50 mm±1.0mm					
尺寸 DIMENSIONS L (Lead length)	24.0 mm±5.0mm					
ød (Lead diameter)	0.6 mm±0.10mm					
C (Coating rundown on lead)	3.0 mm max					

	onic®				編號DOC NO.:	DEC-SA-WI001
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概述						
加加加 Introductio	on.					
2.1. 範圍						
Scop						
-		制造的安規陶瓷電容	哭			
		ety ceramic capacitors for D				
2.2. 應用						
	cations					
		電源與AC適配器的濾波	支電路和耦合電路。			
			-secondary coupling on switch	ning power supplies and	ac adapters.	
也可	J使用在沒有變壓器	器的DAA模塊的D-A隔離	和吸收雜音上。			
Ideal	for use on D-A isolation	and noise absorption for DA	AA modems without transforme	ers.		
2.3. 特點	5					
Featu	ıres					
	操作溫度高達125%	С				
	Operating temperat	ture range guaranteed	up to 125 degrees			
	通過cUL、VDE、	ENEC和CQC認證,	符合IEC 60384-14要素	求		
	By cUL, VDE, ENEC, an	d CQC certified to comply w	vith IEC 60384-14 requirement	s		
	認證標誌 APPROVAL MARK		證標準 AL STANDARDS	額定電壓 RATED VOLTAGE	認證證書 CERTIFICATE N	
			AL STANDARDS		GERTIFICATE N	
	c AL us	UL 60384-14 CSA E60384-14			E47252	5
		DIN EN 60384-14(VDE 0565	0-1-1):2014-04	AC500V AC400V	Y1: 40040	706
		EN 60384-14:2013-08 IEC 60384-14(ed. 4)		AC300V	Y2: 400454	
	(00)			– AC250V	Y1: CQC15001	123983
	COC	IEC 60384-14:2013			Y2: CQC17001	
•		旨包封(符合UL94 V-0標準 ant epoxy resin (conforming to U right fig.			介质(陶)	奇)
		5 5	Coating (Epoxy resin)	*	Dielectric (Ceramic	
			电极(银或铜)			
			Electrode	-	焊锡(无: Soldering	
				4) 2KV		
			Electrode (Silver or copper) 标志(激光蚀刻)	4. 2KV	Soldering (Lead-fre 导线(CP	s e solder) 线)
			Electrode (Silver or copper)	4 RV	Soldering (Lead-fre	s e solder) 线)
-	可適用於自動化生	三產線	Electrode (Silver or copper) 标志(激光蚀刻) Marking	4 2KV	Soldering (Lead-fre 导线(CP	e solder) 线)
•	可適用於自動化生 Cost-saving automatic		Electrode (Silver or copper) 标志(激光蚀刻) Marking	4 RV	Soldering (Lead-fre 导线(CP	s e solder) 线)
•		insertion available	Electrode (Silver or copper) 标志(激光蚀刻) Marking	4 2KV	Soldering (Lead-fre 导线(CP	e solder) 线)
•	Cost-saving automatic 符合RoHS 2.0和REA(insertion available	Electrode (Silver or copper) 标志(激光蚀刻) Marking (Laser etching)	4 RV	Soldering (Lead-fre 导线(CP	s e solder) 线)
•	Cost-saving automatic 符合RoHS 2.0和REA(insertion available CH標準,無鹵。	Electrode (Silver or copper) 标志(激光蚀刻) Marking (Laser etching)	4 2KV	Soldering (Lead-fre 导线(CP	e solder) 线)
•	Cost-saving automatic 符合RoHS 2.0和REA(insertion available CH標準,無鹵。	Electrode (Silver or copper) 标志(激光蚀刻) Marking (Laser etching)	4 RV	Soldering (Lead-fre 导线(CP	s e solder) 线)
•	Cost-saving automatic 符合RoHS 2.0和REA(insertion available CH標準,無鹵。	Electrode (Silver or copper) 标志(激光蚀刻) Marking (Laser etching)	4 2KV	Soldering (Lead-fre 导线(CP	e solder) 线)



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安規陶瓷電容器規格承認書 APPROVAL SPECIFICATION FOR SAFETY CERAMIC CAPACITORS

4. 認證規格清單

Certification specification list

品號 Part Bumber	Safety subclass	額定電壓 Rated voltage	材質 T.C.	容量 Capacitance	誤差 Tolerance	包裝方式 Package	腳距 Lead spacing	直徑 Diameter (±1.0mm)	厚度 Thickness (±1.0mm
	1	,,							
CY2100J 1 EB44G2A	Y2		Y5P	10PF	±5%			6.5mm	3.7mm
CY2120J 1 EB46P2A	Y2		Y5P	12PF	±5%			7.0mm	3.4mm
CY2150J 1 EB46P2A	Y2		Y5P	15PF	$\pm 5\%$			7.0mm	3.4mm
CY2180J 1 EB46P2A	Y2		Y5P	18PF	$\pm 5\%$			7.0mm	3.4mm
CY2220J 1 EB46P2A	Y2		Y5P	22PF	$\pm 5\%$			7.0mm	3.4mm
CY2270J 1 EB46P2A	Y2		Y5P	27PF	±5%			7.0mm	3.4mm
CY2330J 1 EB46P2A	Y2		Y5P	33PF	±5%			7.0mm	3.4mm
CY2390J 1 EB46P2A	Y2		Y5P	39PF	±5%			7.0mm	3.4mm
CY2470J 1 EB46P2A	Y2		Y5P	47PF	±5%			7.0mm	3.4mm
CY2560J 1 EB46A2A	Y2		Y5P	56PF	±5%			8.0mm	3.4mm
CY2680J 1 EB46A2A	Y2		Y5P	68PF	±5%			8.0mm	3.4mm
CY2820J 1 EB47A2A	Y2		Y5P	82PF	±5%			8.5mm	3.4mm
CY2101J 1 EB48K2A	Y2		Y5P	100PF	±5%			9.5mm	3.4mm
CY2101K 1 EB44G2A	Y2	1	Y5P	100PF	±10%	1		6.5mm	3.7mm
	Y2	1	Y5P	150PF	±10%	1		6.5mm	3.7mm
CY2221K 1 EB44G2A	Y2	1	Y5P	220PF	±10%	1		6.5mm	3.7mm
CY2271K 1 EB44G2A	Y2		Y5P	270PF	±10%			6.5mm	3.7mm
CY2331K 1 EB44G2A	Y2		Y5P	330PF	±10%			6.5mm	3.7mm
CY2391K 1 EB45V2A	Y2		Y5P	390PF	±10%			6.5mm	3.7mm
CY2471K 1 EB46J2A	Y2		Y5P	470PF	±10%	T: Taping/Box		7.5mm	3.7mm
CY2561K 1 EB46H2A	Y2		Y5P	560PF	±10%	P: Taping/Reel		8.0mm	3.7mm
	Y2		Y5P	680PF	±10%	2: Bulk, L3.0mm		8.5mm	3.7mm
	Y2		Y5P	820PF	±10%	<u>3:</u> Bulk, L3.2mm		10.0mm	3.7mm
CY2102K 1 EB48U2A	Y2	8: AC250V	Y5P	1000PF	±10%	4: Bulk, L3.5mm	C: F5.08mm	10.0mm	3.7mm
	Y2	9: AC300V	Y5U	470PF	±10%	5: Bulk, L3.8mm 6: Bulk, L4.0mm	D: F7.5mm	6.5mm	3.7mm
	Y2	2: AC400V 6: AC500V	Y5U	560PF	±20%	7: Bulk, L4.5mm	E: F10.0mm	6.5mm	3.7mm
	Y2	<u>[0:]</u> AC300V	Y5U	680PF	±20%	8: Bulk, L5.0mm		6.5mm	3.7mm
	Y2	-	Y5U	820PF	±20%	9: Bulk, L6.0mm		6.5mm	3.7mm
	Y2	-	Y5U	1000PF	±20%	V: Bulk, L7.0mm		7.5mm	3.7mm
	Y2	-	Y5U		±20%	A: Bulk, L8.0mm B: Bulk, L10mm			3.7mm
		-		1500PF		I: Bulk, L24mm		8.5mm	
	Y2	-	Y5U	2200PF	±20%			8.5mm	3.7mm
	Y2	-	Y5U	2700PF	±20%	-		9.0mm	3.7mm
	Y2	-	Y5U	3300PF	±20%	-		11.0mm	3.7mm
	Y2	-	Y5U	3900PF	±20%	-		11.5mm	3.7mm
	Y2	-	Y5U	4700PF	±20%			12.5mm	3.7mm
	Y2		Y5U	5600PF	±20%			13.5mm	3.7mm
	Y2		Y5U	6800PF	±20%			14.5mm	3.7mm
	Y2		Y5U	10000PF	±20%			18.0mm	3.7mm
CY2102M 1 EF44G2A	Y2		Y5V	1000PF	±20%			6.5mm	3.7mm
CY2152M 1 EF45V2A	Y2		Y5V	1500PF	±20%			6.5mm	3.7mm
CY2222M 1 EF46J2A	Y2		Y5V	2200PF	±20%			6.5mm	3.7mm
CY2272M 1 EF47J2A	Y2		Y5V	2700PF	±20%			7.5mm	3.7mm
CY2332M 1 EF47J2A	Y2		Y5V	3300PF	±20%			8.5mm	3.7mm
CY2392M 1 EF48F2A	Y2		Y5V	3900PF	±20%			8.5mm	3.7mm
CY2472M 1 EF48F2A	Y2] [Y5V	4700PF	±20%			9.5mm	3.7mm
CY2562M 1 EF4AG2A	Y2		Y5V	5600PF	±20%			11.5mm	3.7mm
CY2682M 1 EF4BH2A	Y2		Y5V	6800PF	±20%			13.0mm	3.7mm
CY2103M 1 EF4CC2A	Y2		Y5V	10000PF	±20%			14.0mm	3.7mm

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品號 Part Bumber	安规类别 Safety subclass	額定電壓 Rated voltage	材質 T.C.	容量 Capacitance	誤差 Tolerance	包裝方式 Package	腳距 Lead spacing	直徑 Diameter (±1.0mm)	厚度 Thickness (±1.0mm
	ouboluoo	Tontago				<u> </u>		(_1.0000)	(=1.000
CY1100JE1 🗆 EB44G2A 🗆	Y1		Y5P	10PF	±5%		10.0mm	6.5mm	3.7mm
CY1120JE1 EB46P2A	Y1		Y5P	12PF	±5%		10.0mm	7.0mm	3.4mm
CY1150JE1 🗆 EB46P2A 🗆	Y1		Y5P	15PF	±5%		10.0mm	7.0mm	3.4mm
CY1180JE1 🗆 EB46P2A 🗆	Y1		Y5P	18PF	±5%		10.0mm	7.0mm	3.4mm
CY1220JE1 🗆 EB46P2A 🗆	Y1		Y5P	22PF	±5%		10.0mm	7.0mm	3.4mm
CY1270JE1 🗆 EB46P2A 🗆	Y1		Y5P	27PF	±5%		10.0mm	7.0mm	3.4mm
CY1330JE1 🗆 EB46P2A 🗆	Y1		Y5P	33PF	±5%		10.0mm	7.0mm	3.4mm
CY1390JE1 🗆 EB46P2A 🗆	Y1		Y5P	39PF	±5%		10.0mm	7.0mm	3.4mm
CY1470JE1 🗆 EB46P2A 🗆	Y1		Y5P	47PF	±5%		10.0mm	7.0mm	3.4mm
CY1560JE1 🗆 EB46A2A 🗆	Y1		Y5P	56PF	±5%		10.0mm	8.0mm	3.4mm
CY1680JE1 🗆 EB46A2A 🗆	Y1		Y5P	68PF	±5%		10.0mm	8.0mm	3.4mm
CY1820JE1 🗆 EB47A2A 🗆	Y1	1	Y5P	82PF	±5%		10.0mm	8.5mm	3.4mm
CY1101JE1 🗆 EB48K2A 🗆	Y1	1	Y5P	100PF	±5%	1	10.0mm	9.5mm	3.4mm
CY1101KE1□EB45W2A□	Y1	1	Y5P	100PF	±10%	1	10.0mm	6.5mm	4.4mm
CY1151KE1□EB45W2A□	Y1		Y5P	150PF	±10%		10.0mm	6.5mm	4.4mm
CY1221KE1□EB45W2A□	Y1		Y5P	220PF	±10%		10.0mm	6.5mm	4.4mm
CY1271KE1 🗆 EB46L2A 🗆	Y1		Y5P	270PF	±10%	T: Taping/Box	10.0mm	7.5mm	4.4mm
CY1331KE1 🗆 EB46L2A 🗆	Y1		Y5P	330PF	±10%	L1: Taping/Box P: Taping/Reel	10.0mm	7.5mm	4.4mm
CY1391KE1 🗆 EB46X2A 🗆	Y1		Y5P	390PF	±10%	2: Bulk, L3.0mm	10.0mm	8.0mm	4.4mm
CY1471KE1 🗆 EB46X2A 🗆	Y1	8: AC250V	Y5P	470PF	±10%	3: Bulk, L3.2mm 4: Bulk, L3.5mm	10.0mm	8.0mm	4.4mm
CY1561KE1 🗆 EB47M2A 🗆	Y1	9: AC300V	Y5P	560PF	±10%	5: Bulk, L3.8mm	10.0mm	8.5mm	4.4mm
CY1681KE1 🗆 EB48I2A 🗆	Y1	2: AC400V	Y5P	680PF	±10%	6: Bulk, L4.0mm 7: Bulk, L4.5mm	10.0mm	9.5mm	4.4mm
CY1821KE1 🗆 EB48I2A 🗆	Y1	6: AC500V	Y5P	820PF	±10%	8: Bulk, L4.50mm	10.0mm	9.5mm	4.4mm
CY1102KE1 EB49H2A	Y1		Y5P	1000PF	±10%	9: Bulk, L6.0mm	10.0mm	11.0mm	4.4mm
CY1471ME1□EE45W2A□	Y1		Y5U	470PF	±20%	<u>V:</u> Bulk, L7.0mm <u>A:</u> Bulk, L8.0mm	10.0mm	6.5mm	4.4mm
CY1561ME1□EE45S2A□	Y1		Y5U	560PF	±20%	B: Bulk, L10mm	10.0mm	6.5mm	4.4mm
CY1681ME1 EE46L2A	Y1		Y5U	680PF	±20%	1: Bulk, L24mm	10.0mm	7.5mm	4.4mm
CY1821ME1 EE46L2A	Y1		Y5U	820PF	±20%		10.0mm	7.5mm	4.4mm
CY1102ME1 EE46L2A	Y1		Y5U	1000PF	±20%		10.0mm	7.5mm	4.4mm
CY1152ME1□EE47G2A□	Y1		Y5U	1500PF	±20%		10.0mm	9.0mm	4.4mm
CY1222ME1□EE4802A□	Y1		Y5U	2200PF	±20%		10.0mm	10.0mm	4.4mm
CY1272ME1 EE4BI2A	Y1		Y5U	2700PF	±20%		10.0mm	13.0mm	4.4mm
CY1332ME1 🗆 EE4BI2A 🗆	Y1		Y5U	3300PF	±20%		10.0mm	13.0mm	4.4mm
CY1392ME1 EE4DD2A	Y1		Y5U	3900PF	±20%		10.0mm	14.5mm	4.4mm
CY1472ME1 EE4DD2A	Y1		Y5U	4700PF	±20%		10.0mm	14.5mm	4.4mm
CY1102ME1□EF45W2A□	Y1		Y5V	1000PF	±20%		10.0mm	6.5mm	4.4mm
CY1152ME1	Y1		Y5V	1500PF	±20%		10.0mm	7.5mm	4.4mm
CY1222ME1	Y1		Y5V	2200PF	±20%		10.0mm	8.0mm	4.4mm
CY1272ME1	Y1		Y5V	2700PF	±20%		10.0mm	10.0mm	4.4mm
CY1332ME1 🗆 EF4802A 🗆	Y1		Y5V	3300PF	±20%		10.0mm	10.0mm	4.4mm
CY1392ME1	Y1		Y5V	3900PF	±20%		10.0mm	10.5mm	4.4mm
CY1472ME1 🗆 EF49H2A 🗆	Y1		Y5V	4700PF	±20%		10.0mm	11.0mm	4.4mm

當上述產品尺寸規格與規格表規定有差異時,以規格表爲準。

When there is a discrepancy between the dimensions of the above products and the Data sheet, the Data sheet shall prevail.

Dersonic

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5. 標準與試驗方法

Specifications and Testing Method

No.	項 Ite	目 m	標準 Specifications	試驗方法 Testing Method			
1		見尺寸 nce (APP) nension	外觀形狀沒有明顯的缺點,尺寸在標準範 圍內。 No marked defect on appearance form and dimensions are within specified range.	5 電容必須用目視檢查其明顯的缺點。 The capacitor should be visually inspected for evidence of defect. 尺寸用遊標卡尺測量。 Dimensions should be measured with slide calipers.			
2	標 Mar	誌 king	清晰易於識別 To be easily legible	目視檢查。 The capacitor should be visually inspected.			
3	-	量 ince (C _R)	在誤差範圍内 Within specified tolerance	容量與損耗角正切(Q值)在25±1℃下,使用1kHz(SL使用1MHz或100kHz)和	1Vrms下測		
4	損耗角 Tangent of los		0.025 max	量。 The capacitance, tan δ (Q value) should be measured at 25°C \pm 1°C with 1kHz (SL: 1MHz and AC1.0V (r.m.s.).	or 100kHz)		
5	絕緣 Insulation (I	Resistance	10 000MΩ min	在兩導線間施加500VDC進行測量,時間不超過1分鐘(如果絕緣電阻達到要 時,試驗可以在更短的時間内結束)。 The insulation resistance should be measured with a DC 500V at normal temperature and humidity a less than 1 min. of charging (The test may be terminated in a shorter time, if the required value of insulation resistance is reached).			
		導線間 Between Lead	無失效。 No failure	在電容器兩導線間施加下表電壓60s後不被破壞(充/放電流不大於50 The capacitor should not be damaged when test voltages of following table are applied betw wires for 60 sec. (Charge/Discharge current ≤50mA)			
		Wires		Type Y2 Y1			
				Voltage proof 2500Vac 4000Vac			
6	耐電壓 Voltage proof (TV) 本體絕緣 Body insulation			器中,最後施加下表所示的電壓60秒種 First, the terminals of the capacitor should be connected together. Then, as shown in figure at right, a metal foil should be closely wrapped around the body of the capacitor to the distance of about 3 to 4mm from each terminal. Then, the capacitor should be inserted into a container filled with metal balls of about 1mm diameter. Finally, AC voltage of following table is appli between the capacitor lead wires and metal balls.	ed for 60 sec		
				Type Y2 Y1			
				Voltage proof 2500Vac 4000Vac			
7	導線抗 Terminal Ter	張強度 sile Strength	導線無折斷,電容無破損。 Lead wire should not be cut off. Capacitor should not be broken.	固定電容器的本體,使電容器每支導線均承受10N垂直力,保持10±1 fix the body of the capacitor and apply a tensile weight gradually to each lead wire in the rad the capacitor up to 10N and keep it for 10±1 sec.			
8	場級打力打毀及 Terminal Bending Strength broken.		Lead wire should not be cut off. Capacitor should not be	電容器導線應承受5N重量,然後嚮外彎折成90°,然後回復到原來位置;接 反方嚮彎折90°,再復原;彎折一次2-3秒鐘。 Each lead wire should be subjected to 5N weight and then a 90° bend, at the point of egress, in one direction, return to original position, and then apply a 90° bend in the opposite direction at the rate of bend in 2 to 3 sec.			
		APP	沒有可見損傷 No marked defect	將電容器導線焊穩和調整振動頻率範圍爲10-55Hz、總振幅爲1.5mm, 到55Hz,然後再回到10Hz,大約一分鐘。	振動從10⊦		
9	振動 Vibration Resistance	C _R	在允許誤差範圍風 Within the specified tolerance	The capacitor should be firmly soldered to the supporting lead wire and vibrated at a freque 10 to 55Hz, 1.5mm in total amplitude, with about a 1 minute rate of vibration change from and back to 10Hz.			
		tanδ	Per Item 4	總時間六個小時, 每兩小時在相互垂直方嚮來回三次。 Apply for a total of 6 hrs., 2 hrs each in 3 mutually perpendicular directions.			
10		旱性 ity of Lead	導線必須有3/4以上的面積均勻附着焊錫 Lead wire should be soldered with uniform coating on the axial direction over 3/4 of the circumferential	將電容導線浸入焊料中2±0.5秒鐘,浸入深度離導線根部1.5-2.0mm。 The lead wire of a capacitor should be dipped into molten solder for 2±0.5 sec. The depth or up to about 1.5 to 2.0mm from the root of lead wires. 焊錫溫度 : 245±5°C	of immersion		

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序 No.	項 Ite		標準 Specifications		驗方法 ing Method	
		APP	沒有可見損傷 No marked defect		處、 图2 Fig. 2	Thermal screen
11	耐焊接熱	∆C/C	Y5P: ±10% Y5U, Y5V: ±20%	As shown in figure, the lead wires should be imm in solder of $260\pm5^{\circ}$ C up to 1.5 to 2.0mm from th of terminal for 10 ± 1.0 s	he root	Molten solder
11	Soldering Effect	IR	2 000MΩ min	預處理: 電容器必須先貯存在85±2°(時, 再進行初始測量。 Pre-treatment: Capacitor should be stored at 85: -2h. before initial measurements.		
		TV	Per Item 6	試驗後處理: 電容必須存放在室溫下 Post-treatment: Capacitor should be stored for 1		
12	針焰 Flame		電容離開火焰後自動熄滅。 The capacitor flame discontinues as follows.	電容應放在火焰中15秒鐘,然後離開 種,如此重復5次。 The capacitor should be subjected to applied flam 15 sec. and then removed for 15 sec. until 5 cycl completed.	ne for es are	Gas Burner
13	自炊 Active Fla		紗布不着火 The cheese-cloth should not be on fire.	This test is not applicable to Y1 capacitors. 單個電容器應用紗布全部包住至少一次,每次放電間隔5秒鐘。AC電源應結 The capacitor should be individually wrapped in a cheese-cloth. The capacitor should be subjected discharges should be 5 sec. The UAC should be r $site to the sec the UAC should be for the subjectedC1. C2: 1\mu f \pm 10\%C3: 0.033\mu f \pm 5\% 10WC3: Capacitor under testF. Fuse, rated 10AR: 100Q \pm 5\%Ut: Voltage applied to C2.L1 1014: 1.5mH ±20% 16A Red core choise$	-層,但不多於兩層。電容 佳持兩分鐘,最後放電。 at least one but not more than two to 20 discharges. The interval bet	客應承受放電20 complete layers of ween successive t discharge. ↓ Ct ↓ ut
14	阻熔 Passive Fla	····.	燃燒時間不超過30秒,棉紙不被點燃。 The burning time should not exceed 30 sec. The tissue paper should not ignite.	電容器在下面試驗中,火焰在適當的 一次燃燒,燃燒時間: 30秒鐘。 The capacitor under test should be held in the fla specimen should only be exposed once to the flar	me in the position which best pror	-
		APP	沒有可見損傷 No marked defect			
	耐濕負荷	∆C/C	Y5P: ±10% Y5U, Y5V: ±15%	- 電容保持在溫度爲40±2°C、相對濕度。		
15	Humidity	tanδ	Y5P, Y5U: 0.050 max Y5V: 0.075 max	Apply the rated voltage for 500±12 hrs. at 40±		ıy.
		IR	5 000MΩ min	_ 試驗後處理: 電容必須貯存在室溫修 Post-treatment: Capacitor should be stored for 1		
		TV	Per Item 6	-		
		APP	沒有可見損傷 No marked defect	每個供試驗電容必須承受5kV(Y1爲8k	30-7-1	T1=1.2us=1.67T T2=50us
		IR	5 000MΩ min	次,然後再進行壽命試驗。 Each individual capacitor should be subjected to impulses for three times. After the capacitors are	4	1 12
16	壽命試驗 Life Test		Y5P: ±10% Y5U, Y5V: ±15%	在125+2/-0°C的條件下使用下表所要要 Apply a voltage of following table for 1000 hrs. al 	t 125 + 2/-0°C plied Voltage	V(rms) for 0.1s.
		TV	如第6項 Per Item 6	試驗後處理: 電容必須貯存在室溫修 Post-treatment: Capacitor should be stored for 1		



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Measuri 6.1.	l使用注意事項 ng and Application Noti 測量注意事項 Measurement notice 請在以下條件下測量 Please measure under th	⊒.₀				
6.1.1.		与試驗和測量應按			大氣條件下表進行。 ric conditions for testing as	given in 5.3 of IEC
		溫度	相對濕度		氣壓	
		Temperature	Relative humic	-	Air pressure	
		15°C~35°C	25%~75%		86kPa~106kPa	
	與試驗後恢復時間間 Before the measurements	司樣的時間,通常; s are made, the capacito	是足夠的。 or shall be stored at the m	easuring temperature f	都達到這一溫度。爲J or a time sufficient to allow ormally sufficient for this pi	the entire
	在標準大氣條件下並 Test and measurement sl repeated using one of the 當按某一順序進行語 When tests are conducted test. 在測量期間,不應低	進行測量,其測量 hall be made under stan referee temperatures (a 式驗時,一個試驗i l in a sequence, the fina 吏電容器受到氣流。	結果存在爭議時應 dard atmospheric condition as given in 6.1.3). 的最後測量可以作為 al measurements of one te 、陽光直射或可能引	E用仲裁溫度(見 Ins for testing, in the e 下一試驗的初始; st may be taken as the l起誤差的其他影響	5.1.3)重復測量。 vent of a dispute, the measu 則量。 initial measurements for th	irements shall be ne succeeding
6.1.2.	Unless otherwise specifie 如果恢復必須在嚴相	d recovery shall take pla 各控制的條件下進 controlled conditions is 見定,恢復時間應	行,應采用IEC 60068- necessary, the controlled 爲1h~2h。	mospheric conditions f 1中5.4.1的控制條(recovery conditions of	•	be used.
6.1.3.	仲裁條件 Referee conditions 在仲裁情況下,應追 For referee purposes, one shall be selected:				of IEC 60068-1, as given in	table 1 below,
		溫度	相對濕度		氣壓	
		Temperature	Relative humic	-	Air pressure	
		25°C±1°C	48%~52%		86kPa~106kPa	l
6.2.	工作電壓 Operating voltage 嚮電容器施加的電應 The voltage applied to the					
	電壓	直流電壓		交流電壓	脈沖電	壓
	Voltage	DC Voltage	DC+AC Voltage	AC Voltage	Pulse Vol	
	<u>測量位置</u> Positional Measurement	Vo-p	Vo-p			

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	在交流電路或紋波電流電路中使用直流額定電壓電容器時,請務必將外加電的Vo-p值維持在額定電壓範圍內。 When DC-rated capacitors are to be used in AC or ripple current circuits, be sure to maintain the Vp which contains DC bias within the rated voltage range. 若嚮電路施加電壓,開始或停止時可能會因諧振或切換產生暫時的異常電壓這些異常電壓的電容器。 When the voltage is applied to the circuit, starting or stopping may generate irregular voltage for a tr switching. Be sure to use a capacitor with a rated voltage range that includes these irregular voltage	-p value of the applied vol 。請務必使用額定電 ansit period because of re	tage or the Vo-p 電壓範圍包含
6.3.	工作溫度與自生熱 Operating temperature and self-generated heat 適用於Y5P、Y5U、Y5V特性。 Apply to Y5P, Y5U、Y5V特性。 Apply to Y5P, Y5U, Y5V char. 電容器的表面溫度應保持在其額定工作溫度範圍的上限以下。務必考慮到電 流、脈沖電流等中使用時可能會因介電損耗發出自生熱。外加電壓應使自生 不超過20°C範圍。測量時應使用ø0.1mm小熱容量(K)的熱電偶,而且電容器 溫度波動影響。過熱可能會導致電容器特性及可靠性下降。 Keep the surface temperature of a capacitor below the upper limit of its rated operating temperature heat generated by the capacitor itself. When the capacitor is used in a high frequency current, pulse self-generated heat due to dielectric loss. Applied voltage load should be such that self-generated he where the capacitor is subjected at an atmosphere temperature of 25°C. When measuring, use a th ø0.1mm under conditions where the capacitor's characteristics and reliability.	容器的自生熱。電容 熱等負荷在25℃周圍 不應受到其它元件的 range. Be sure to take inf current or similar current eat is within 20°C under ermocouple of small therr]溫度條件下)散熱或環境 to account the t, it may have the condition nal capacity-k of
6.4.	(切勿在冷卻風扇運轉時進行測量。否則無法確保測量數據的精確性。) (never attempt to perform measurement with the cooling fan running. Otherwise, accurate measurer 耐電壓的測試條件 Test condition for withstanding voltage	ment cannot be ensured.)	
6.4.1.	測試設備 Test equipment 交流耐壓的測試設備應具有能夠產生類似於50/60Hz正弦波的性能。如果施加 的過載電壓後,則可能會導致故障。 Test equipment for ac withstanding voltage should be used with the performance of the wave simila sine wave or overload exceeding the specified voltage value is applied, a defect may be caused.		
6.4.2.	電壓外加方法 Voltage applied method 測試耐電壓時,電容器的引線或端子應與耐電壓測試設備的輸出端連接牢固 試電壓(速度150V/s)。 When the withstanding voltage is applied, capacitor's lead or terminal should be firmly connected to equipment, and then the voltage should be raised from near zero to the test voltage (rising speed 15	the output of the withsta	
	如果測試電壓不從近零逐漸提高而是直接施加在電容器上,則施加時應包含 應降到近零;然後再將電容器引線或端子從耐電壓測試設備的輸出端取下。 If the test voltage without the raise from near zero voltage would be applied directly to capacitor, tes cross. At the end of the test time, the test voltage should be reduced to near zero, and then capacito output of the withstanding voltage test equipment.	t voltage should be applie	d with the zero
	如果測試電壓不從近零逐漸提高而是直接施加在電容器上,則可能會出現浪 If the test voltage without the raise from near zero voltage would be applied directly to capacitor, the a defect may be caused. 過零點是指電壓正弦通過0V的位置。參見右圖。 Zero cross is the point where voltage sine wave passes 0V.	e surge voltage may arise, tage may arise,	
	See figure at right.	して 过零点 Zero cross	\frown

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6.5.	失效安全性 Fail-safe 電容器損壞時,失效可能會導致短路。爲了避免在短路時引起觸電、冒煙、 用熔絲等元件來設置自動防故障功能。 When capacitor would be broken, failure may result in a short circuit. Be sure to provide an appropri product if failure would result in an electric shock, fire or fuming.		
6.6.	電容器容量變化 Capacitance change of capacitors		
6.6.1.	SL特性		
6.6.2.	SL char. 電容量可能會因環境溫度或外加電壓而發生輕微變化。若要將本產品用於嚴 聯系 Capacitance might change a little depending on a surrounding temperature or an applied voltage. Ple constant time circuit. Y5P、Y5U、Y5V特性		
	Y5P, Y5U, Y5V char. 電容器具有老化特性;因此,電容器若長時間使用,其靜電容量會逐漸降低 境溫度或外加電壓而發生巨大變化。所以不適合用於時間常數電路。 Capacitors have an aging characteristic, whereby the capacitor continually decreases its capacitance long time. Moreover, capacitance might change greatly depending on the surrounding temperature of be suitable for use in a constant time circuit. 若需詳情,請與我公司聯系。 Please contact us if you need detailed information.	e slightly if the capacitor	is left on for a
6.7.	使用設備檢查 Performance check by equipment 使用電容器之前,請先檢查設備的性能和特性沒有問題。 Before using a capacitor, check that there is no problem in the equipment's performance and the spe 一般而言,二類瓷(Y5P、Y5U、Y5V特性)陶瓷電容器的靜電容量具有電壓相關 其電容值可能會隨設備的工作條件而發生變化。因此,一定要確認儀器接收 的影響,如漏電流和靜噪特性。 Generally speaking, class 2 (Y5P, Y5U, Y5V char.) Ceramic capacitors have voltage dependence char characteristics in capacitance. So, the capacitance value may change depending on the operating co sure to confirm the apparatus performance of receiving influence in the capacitance value change of noise suppression characteristic.	關特性和溫度相關特 性能對電容器的靜電 acteristics and temperatu Indition in the equipment.	電容量值變化 Ire dependence Therefore, be
	此外,必要時還要檢查電容器在設備中的防電湧性能,因爲通過電路的感應 Moreover, check the surge-proof ability of a capacitor in the equipment, if needed, because the surg inductance of the circuit.		
6.8.	貯存與使用條件 Operating and storage environment 電容器絕緣包封層不是完美的密封形式,因此,請勿將電容器存放在腐蝕性 、酸、堿、鹽等場所,同時應防潮。 The insulating coating of capacitors does not form a perfect seal; therefore, do not use or store capa especially where chloride gas, sulfide gas, acid, alkali, salt or the like are present. And avoid exposu	citors in a corrosive atmo	
	在對本產品進行清洗、焊接或成型前,請先在指定設備上測試經清洗、焊接 述過程不會影響產品質量。 Before cleaning, bonding, or molding this product, verify that these processes do not affect product o cleaned, bonded or molded product in the intended equipment.		
6.9.	電容器應存放在溫度及相對濕度分別不超出5~40℃及15~70%範圍的場所。請 Store the capacitors where the temperature and relative humidity do not exceed 5 to 40 degrees cent within 6 months after delivered. 焊錫和安裝		
	Soldering and mounting		
6.9.1.	振動與碰撞 Vibration and impact		

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使用時請勿使電容器受到過度沖擊或振動。 Do not expose a capacitor or its lead to excessive shock or vibration during use. 6.9.2. 焊錫 Soldering 當在PCB/PWB焊錫這個產品時,不要超過電容器的焊錫耐熱性標準(260°C, 5s 焊錫熔化,可能導致熱沖擊而使陶瓷介質出現暗裂。 When soldering this product to a PCB/PWB, do not exceed the solder heat resistance specifications (2 this product to excessive heating could melt the internal junction solder and may result in thermal sh	260ºC , 5s) of the capac	citor. Subjecting
Temperature (°C) Temperature: Room temperature Time : 120 sec max	Soldering e to 130°C 260°C max, 5 s	L cooling
Fig.: Wave-soldering temper 當使用烙鐵進行手工焊錫時,應該遵照下列條件: When soldering capacitor with a soldering iron, it should be performed in the following conditions.	rature-time profile to recommen	d
 焊錫溫度: 320℃最大 Temperature of iron-tip: 320 degrees C. Max. 烙鐵頭: 不超過40W Soldering iron wattage: 40W max. 焊錫時間: 不超過3.0秒 Soldering time: 3.0 sec. Max. 6.9.3. 壓焊、樹脂塗層與包封 Bonding, resin molding and coating 在壓焊、樹脂塗層和封膜之前,請先使用指定設備確認對產品沒有影響,然後 Before bonding, molding or coating this product, verify that these processes do not affect the quality of the bonded, molded or coated product in the intended equipment. 		e performance of
在粘合、樹脂塗層、封膜的幹燥、硬化條件使用到有機溶劑(乙酸乙酯、甲基 電容器的包封樹脂,而造成短路不良。 In case the amount of applications, dryness/hardening conditions of adhesives and molding resins co methyl ethyl ketone, toluene, etc.) Are unsuitable, the outer coating resin of a capacitor is damaged b worst case, in a short circuit.	ontaining organic solvent	s (ethyl acetate,
 粘合、樹脂塗層、封膜厚度的偏差可能會在冷卻與加熱過程中使電容器的包括 The variation in thickness of adhesive, molding resin or coating may cause outer coating resin crackin capacitor in a temperature cycling. 6.9.4. 清洗(超聲波清洗) Cleaning (ultrasonic cleaning) 要進行超聲波清洗,應遵守下列條件。 To perform ultrasonic cleaning, observe the following conditions. 清洗槽容量:每升輸出功率20瓦特或以下。 Rinse bath capacity: output of 20 watts per liter or less. 清洗時間:最多5分鐘。 Rinsing time: 5 min. Maximum. 不得直接振動 pcb/pwb。 Do not vibrate the pcb/pwb directly. 過度的超聲波清洗會導致導線的過載損壞。 Excessive ultrasonic cleaning may lead to fatigue destruction of the lead wires. 		



	01, 0			
Tape width		W	18.0+1.0/-0.5	
Hold-down tape width		W0	≥7.0	
Hole position		W1	9.0+0.75/-0.5	
Hole-down tape position		W2	≪3.0	
Height of component from tape center	Straight lead	Н	18.0+2/-0	
	Kinked lead	HO	16.0 ± 0.5	
Component height		H1	≪40	
Feed hole diameter		D0	4.0±0.3	
Total tape thickness		t1	≪0.9	Ground paper: 0.5 ± 0.1 mm
Total thickness, tape and lead wire		t2	≤1.5	
Length of snipped		L	≤11.0	

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