

# 安规陶瓷电容器承认书

# APPROVAL SPECIFICATIONS FOR SAFETY CERAMIC CAPACITOR (AEC-Q200 REV.)

客户 CUSTOMER	立创商城				
客户料号 CUSTOMER P/N	C3293131				
规格描述 DESCRIPTION	CY2102MD1IEE45VZ	AE			
产品品号 PART NUMBER	Y2/102/M/F7.5/L24/Y	Y2/102/M/F7.5/L24/Y5U/300VAC/AEC-Q200			
日期 DATE	2022-07-08	文件编号 DOC. NO.	DEC-SA-WI010		

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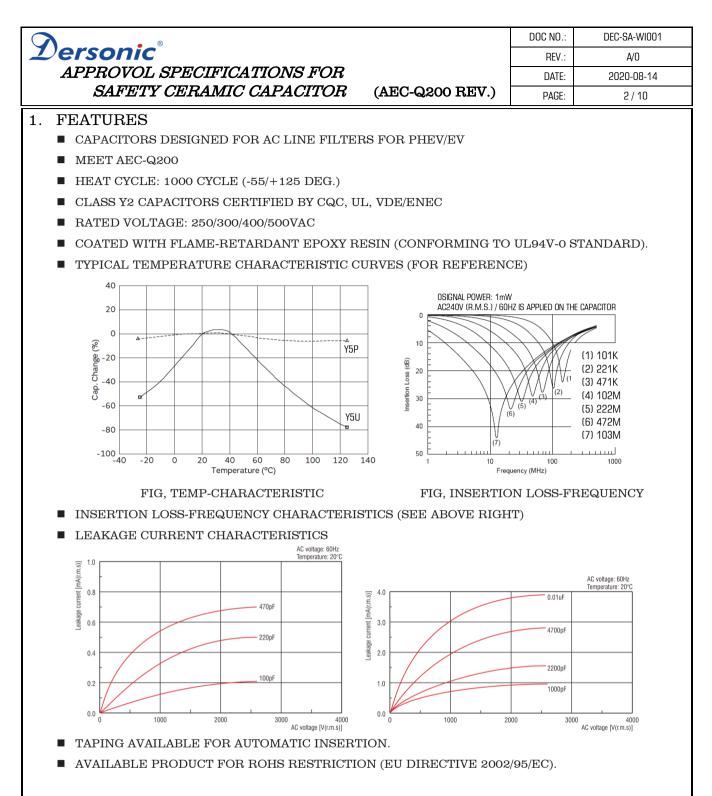
APPROVOL SPECIFICATIONS FOR SAFETY CERAMIC CAPACITOR

(AEC-Q200 REV.)

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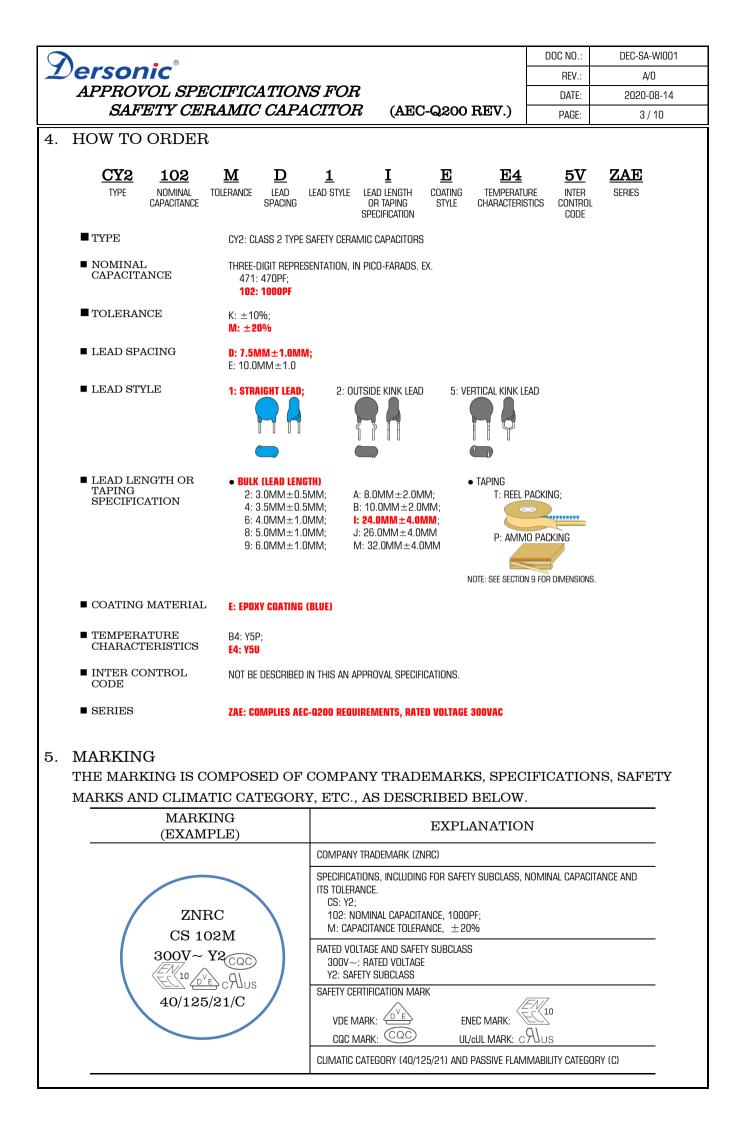


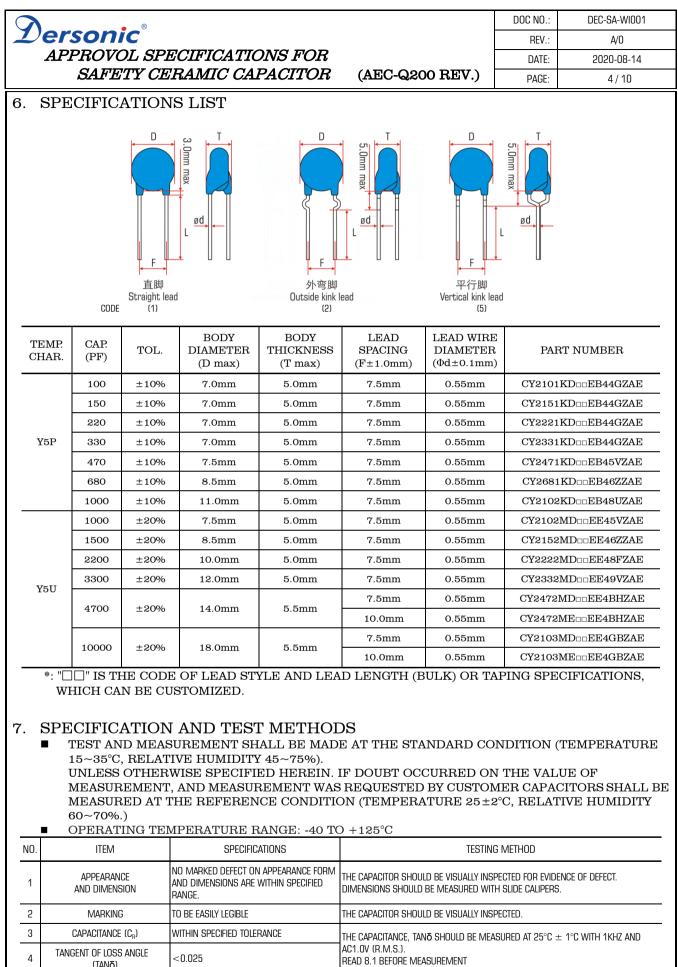
#### 2. APPLICATIONS

- IDEAL FOR USE AS Y CAPACITORS FOR AC LINE FILTERS AND PRIMARY-SECONDARY COUPLING ON BATTERY CHARGERS FOR PHEV/EV.
- IDEAL FOR USE AS A FILTER CAPACITOR FOR DC-DC CONVERTERS FOR PHEV/EV AND HEV.

3. E	STANDARD CERTIFICATION									
	APPROVAL MARK	APPROVAL STANDARDS	RATED VOLTAGE	CERTIFICATE NUMBER						
	c <b>FL</b> us	UL 60384-14		E472525						
		DIN EN 60384-14(VDE 0565-1-1):2014-04 EN 60384-14:2013-08 IEC 60384-14(ed. 4)	AC500V AC400V AC300V	40045478						
		IEC 60384-14:2013	AC250V	CQC17001162592						

#### 3. STANDARD CERTIFICATION





(TANO)		READ & I BEFURE IVIEASUREIVIENT
INSULATION RESISTANCE (IR)	>10000MΩ	The insulation resistance should be measured with a DC 500V at Normal Temperature and humidity and less than 1 min. Of charging (the test may be terminated in a shorter time, if the required value of insulation Resistance is reached).

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NO.	NTINUED FROM		SPECIFICATIONS	TESTING METHOD				
NU.	ITEIVI		SPECIFICATIONS		TES		/IETHUD	
		LEAD	NO FAILURE	The capacitor should Table are applied bet Current ≤50MA)				
		WIRES			TYPE		Y2	
					TEST VOLT	AGE	AC2500V	
6	6 TEST VOLTAGE (TV) BODY INSULATIO		NO FAILURE	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 APPLIED FOR 60 SEC. BETWEEN THE CAPACITOR LEAD WIRES AND METAL BALLS.				oil de constant de
					TYPE	105	Y2	
					TEST VOLT	AGE	AC2500V	
				The capacitance mea Following Table.	SUREMENT SH	HOULD I	be made at each	step specified in
	7 TEMPERATURE CHA				STEP	TEN	iperature (°C)	
					1		+20±2	
7		RACTERISTICS	Y5P: WITHIN ±10% Y5U: WITHIN +20/-55%		2		-25±2 +20±2	
			(TEMP. RANGE: -25 TO +85°C)		4		+20±2 +85±2	
					5		-20±2	
				PRE-TREATMENT: CAPACITOR SHOULD CONDITION FOR 24±			,	ien placed at room
8	SOLDERAE	BILITY	Lead wire should be soldered with Uniform coating on the axial direction over 3/4 of the circumferential direction.	Should be placed int The lead wire of a CA 25% rosin and then The depth of immers Wires. Temp. of Solder: lead H63	Apacitor Sho Into Molten Sion IS up to . D free Soldei	iuld be I Solde About R (SN-3	DIPPED INTO AN E R FOR 5+0/-0.5S. 1.5 TO 2.0MM FRO	Thanol Solution of DM the root of lead
		APPEARANCE	NO MARKED DEFECT	AS SHOWN IN THE FIGU SHOULD BE IMMERSED 260±5°C UP TO 1.5 TO	IN SOLDER O	F	Thermal	
9	RESISTANCE TO	∆C/C	±10%	ROOT OF TERMINAL FOF PRE-TREATMENT: CAPACITOR SHOULD E	R 10±1S.		screen	1.5 to 2.0mm
J	Soldering heat	IR	>2000MΩ	125±3°C FOR 1H, TH ROOM CONDITION FO INITIAL MEASUREMEN	hen placed a Nr 24±2h bef	Т		Molten
		TV	Per Item 6	POST-TREATMENT: CAPACITOR SHOULD E		R 1 TO	2H AT ROOM CON	
		APPEARANCE	No marked defect	Solder the capacitor to the test jig resin board) by resin (Ad-	(ADHESIVE)(G		(	Resin (Adhesive)
10	VIBRATION RESISTANCE	C <sub>R</sub>	WITHIN THE SPECIFIED TOLERANCE	THE CAPACITOR SHOUL THE SUPPORTING LEAD MINUTES RATE OF VIBR	Wire, 1.5MM Ation Chang	1 in to E fron	ral amplitude, Wi 1 10Hz to 2000Hz	and back to 10Hz.
		τανδ	PER ITEM 4	This motion should I Perpendicular Direc' The Acceleration IS 5	tions (total			IUALLY
		APPEARANCE	No marked defect	Solder the capacitor			/	
	ΜΕΩΗΔΝΙΩΔΙ	C <sub>B</sub>	WITHIN THE SPECIFIED TOLERANCE	to the test jig (glas (adhesive). Three shocks in eac				Resin (Adhesive)
11	MECHANICAL							
11	Mechanical Shock	τανδ	< 0.050	APPLIED ALONG 3 MUTU SPECIMEN (18 SHOCKS THE SPECIFIED TEST PU 0.5MS, PEAK VALUE: 11	ually Perpen 5). Lse should b	dicula Be half	r axes to and fri -Sine and should	

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0.	). ITEM		ITEM SPECIFICATIONS TESTING METHOD				
		APPEARANCE NO MARKED DEFECT					
HUMIDITY		∆C/C	Y5P: ±10% Y5U: ±15%	Set the capacitor for 1000 $\pm$ 12H at 85 $\pm$ 3°C in 80 to 85% relative humidity. PRE-treatment:			
12 (UNDER STEADY STATE)	τανδ	<0.050	CAPACITOR SHOULD BE STORED AT 125±3°C FOR 1H, THEN PLACED AT ROOM CONDITION FOR 24±2H BEFORE INITIAL MEASUREMENTS.				
	IR	>2000MΩ	POST-TREATMENT:				
		TV	PER ITEM 6	CAPACITOR SHOULD BE STORED FOR 1 TO 2H AT ROOM CONDITION*.			
		APPEARANCE	No marked defect				
		∆C/C	Y5P: ±10% Y5U: ±20%	APPLY THE RATED VOLTAGE FOR 1000 $\pm$ 12H AT 85 $\pm$ 3°C in 80 to 85% relative humidit PRE-treatment:			
13 Humidity Loading		τανδ	< 0.050	CAPACITOR SHOULD BE STORED AT 125±3°C FOR 1H, THEN PLACED AT ROOM CONDITI FOR 24±2H BEFORE INITIAL MEASUREMENTS.			
		IR	>2000MΩ	Post-treatment: Capacitor should be stored for 1 to 2H at room condition*.			
		TV	PER ITEM 6				
		APPEARANCE	No Marked Defect	IMPULSE VOLTAGE EACH INDIVIDUAL CAPACITOR SHOULD BE SUBJECTED TO A 5KV IMPULSE FOR THREE TIMES. THEN THE CAPACITORS ARE APPLIED TO LIFE TEST.			
4	LIFE	∆C/C	±20%	APPLY A VOLTAGE FROM FOLLOWING TABLE FOR 1000H AT 125+2/-0°C, AND RELATIVE HUMIDITY OF 50% MAX.			
		IR	>3000MΩ	APPLIED VOLTAGE AC510V(R.M.S.) <50/60Hz>, EXCEPT THAT ONCE EACH HOUR THE VOLTAGE IS INCREASED TO AC1000V(R.M.S.) FOR 0.1S. PRE-TREATMENT:			
		TV	Per Item 6	CAPACITOR SHOULD BE STORED AT 125±3°C FOR 1H, THEN PLACED AT ROOM CONE FOR 24±2H BEFORE INITIAL MEASUREMENTS. POST-TREATMENT: CAPACITOR SHOULD BE STORED FOR 1 TO 2 HRS. AT ROOM CONDITION.			
ROBUSTNESS 15 OF		TENSILE	Lead wire should not be cut off. Capacitor should 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 $10\pm15$ .			
	TERMINATIONS	BENDING		Each lead wire should be subjected to 5N of weight and bent 90° at the point egress, in one direction, then returend to its original position and bent 90° the opposite direction at the rate of one bend in 2 to 3S.			
		L		THE CAPACITOR SHOULD BE INDIVIDUALLY WRAPPED IN AT LEAST ONE BUT NOT MORE THA TWO COMPLETE LAYERS OF CHEESE-CLOTH. THE CAPACITOR SHOULD BE SUBJECTED TO 20 DISCHARGES. THE INTERVAL BETWEEN SUCCESSIVE DISCHARGES SHOULD BE 5 SEC. THE UAC SHOULD BE MAINTAINED FOR 2 MIN. AFTER THE LAST DISCHARGE.			
6	ACTIVE FLAMMABILITY		The Cheese-Cloth Should not be on Fire.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			
				Ck: CAPACITOR UNDER TEST F: FUSE, RATED 10A R: 100Q ± 5% U <sub>4</sub> : RATED VOLTAGE Ut: VOLTAGE APPLIED TO Ct. L1 TO L4: 1.5mH ± 20% 16A ROD CORE CHOKE			
7	PASSIVE FLAMMABILITY E		The Burning Time Should Not Exceed 30 Sec. The Tissue Paper Should Not Ignite.	THE CAPACITOR UNDER TEST SHOULD BE HELD IN THE FLAME IN THE POSITION WHICH BE PROMOTES BURNING. EACH SPECIMEN SHOULD ONLY BE EXPOSED ONCE TO THE FLAM TIME OF EXPOSURE TO FLAME: 30 SEC.			
				45° Tissue LENGTH OF FLAME: 12±1MM GAS BURNER: LENGTH 35MM MIN. INSIDE DIA. 0.5±0.1MM OUTSIDE DIA. 0.9MM MAX.			

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NO.	ITEN	Λ	SPECIFICATIONS	TESTING METHOD						
		APPEARANCE	No marked defect	The <u>Capacitor</u> should b	e subjected	to 1000 temper	ATURE CYCLES.			
		∆C/C	Y5P: ±10% Y5U: ±20%	STEP TEMPERATURE	-55	2 ROOM	3 125	4 ROOM		
18	Temperature AND Immersion	τανδ	< 0.050	(°C) TIME (MIN)	+0/-3 30	TEMP. 3	+3/-0 30	TEMP. 3		
	CYCLE	IR	>3000MΩ	PRE-TREATMENT: CAPACITOR SHOULD BE S	ND THEN PLACI	ed at room				
		TV	PER ITEM 6	CONDITION FOR 24±2 H POST-TREATMENT: CAPACITOR SHOULD BE S	-	4+2 ዘ ልፕ <u></u> በባለ				
		∆C/C	±20%	SET THE CAPACITOR FOR 1						
19	HIGH Temperature Exposure	τανδ	< 0.050	PRE-TREATMENT: CAPACITOR SHOULD BE \$ FOR 24±2H.	Stored at 12	5±3°C FOR 1H,	Then placed A	AT ROOM CONDITION		
	(STORAGE)	IR	>1000MΩ	POST-TREATMENT: CAPACITOR SHOULD BE S	Stored for 2	$4\pm2$ H at room	condition.			
		APPEARANCE	No marked defect except color Change of outer coating.	THE CAPACITO <u>R SHOULD B</u> ST	1	TO 300 CYCLES. 1	2			
		∆C/C	Y5P: ±10% Y5U: ±20%	TEMPERA TIME	TURE (°C)	-55+0/-3 15.0±3.0	125+3/- 15.0±3.			
20	THERMAL SHOCK	TANΔ	<0.050	PRE-TREATMENT:			1			
		IR	>3000MΩ	CAPACITOR SHOULD BE STORED AT 85±2°C FOR 1H., AND THEN PLACED AT ROOM CONDITION FOR 24±2 H. POST-TREATMENT:						
		APPEARANCE	No marked defect	CAPACITOR SHOULD BE STORED FOR 24±2 H. AT ROOM CONDITION. PER MIL-STD-202 METHOD 215						
21	RESISTANCE TO	∆C/C	Y5P: ±10% Y5U: ±20%	SOLVENT 1: 1 PART (BY VOLUME) OF ISOPROPYL ALCOHOL 3 PARTS (BY VOLUME) OF MINERAL SPIRITS SOLVENT 2: TERPENE DEFLUXER						
<u> </u>	SOLVENTS	ΤΑΝΔ	< 0.050	Solvent 2: Terfene Defloker Solvent 3: 42 Parts (by volume) of Water 1 Part (by volume) of Propylene Glycol Monomethyl Ether 1 Part (by volume) of Monoethanolomine						
		IR	>3000MΩ							
		APPEARANCE	No marked defect			0.2/-0V (ADD 6.8	BKΩ RESISTOR	) AT 85±3°C AND		
22	BIASED	∆C/C	Y5P: ±10% Y5U: ±20%	80 TO 85% HUMIDITY FOR 1000±12H. PRE-TREATMENT: CAPACITOR SHOULD BE STORED AT 125±3°C FOR 1H, THEN PLACED AT ROOM CONDIT						
	HUMIDITY	TANΔ	<0.050	FOR 24±2H.		<u> </u>				
		IR	>3000MQ	- Post-treatment: Capacitor should be stored for 24±2h at room condition.						
		APPEARANCE	NO MARKED DEFECT	APPLY 24H OF HEAT (25 TC 10 CONSECUTIVE TIMES. PRE-TREATMENT: CAPACITOR SHOULD BE \$ FOR 24±2H. POST-TREATMENT:						
00	Moisture	∆C/C	Y5P: ±10% Y5U: ±20%	CAPACITOR SHOULD BE S		Humidity Humidit	ty Humidity Hu	umidity )-98% /		
23	RESISTANCE	ΤΑΝΔ	< 0.050		tial measurem	looc				
		IR	>3000MΩ	5 -5 -10	1 2 3 4 5 6 7	One cycle 24 hours 8 9 101112131415 — Hours				

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<b>8.</b> 8.1. 8.1.1.	8.1. MEASUREMENT NOTICE PLEASE MEASURE UNDER THE FOLLOWING CONDITIONS.								
		Temperature, °C	RELATIVE H	iumidity, %	AIR PRESS	Gure, Kpa	_		
		15~35	25-	~75	86~	106	_		
8.1.2.	CAPACITOR TO REACH TH TEST AND MEASUREMEL SHALL BE REPEATED USI WHEN TESTS ARE CON SUCCEEDING TEST. DURING MEASUREMENT RECOVERY CONDITIONS UNLESS OTHERWISE SPI IF RECOVERY UNDER CLO UNLESS OTHERWISE SPI	His temperature. The P NT Shall be made undi NG one of the referee Iducted in a sequenc 's the capacitor shall Ecified recovery shall	Eriod as prescribed F Er Standard Atmosph Temperatures (AS Give E, the Final Measure Not be exposed to DR/ Take Place Under The Itions is Necessary, Th	or recovery at th IERIC conditions F In IN 8.1.3). Ments of one te Aughts, direct suf Standard atmosp IE controlled rec	e end of a test is i or testing, in the st may be taken Nlight or other in Heric conditions i Overy conditions	Normally Suff E event of a dis As the initial Ifluences likely For testing (8.			
8.1.3.	REFEREE CONDITIONS	Temperature, °C			AIR PRESS		_		
		,		IUMIDITY, %			_		
8.2.	Below, Shall be selec operating voltage when DC-rated Capac vo-P which contains	ited: Ditors are to be used II DC bias within the rat R a transit period bec	D ATMOSPHERIC CONDI N AC OR RIPPLE CURREN ED VOLTAGE RANGE. WH	t circuits, be sur En the voltage is <i>i</i>	e to maintain the Applied to the circ	vp-p value of t cuit, starting c	068-1, as given in Table 1 He applied voltage or the Ir stopping may generate Rated voltage range that		
	VOLTAGE	DC VOLTAGE	DC+AC VOLTAGE	AC VOLTAGE		PULSE VOLTAGE			
	Positional Measurement	V <sub>P-P</sub>		Å.					
<ul><li>8.3.</li><li>8.4.</li><li>8.4.1.</li><li>8.4.2.</li></ul>	KEEP THE SURFACE TEN ACCOUNT THE HEAT GET CURRENT, IT MAY HAVE UNDER THE CONDITION SMALL THERMAL CAPAC WIND FROM SURROUNI PERFORM MEASUREMEN TEST CONDITION FOR W TEST EQUIPMENT TEST EQUIPMENT TEST EQUIPMENT FOR . DISTORTED SINE WAVE C VOLTAGE APPLIED METHI WHEN THE WITHSTAND VOLTAGE TEST EQUIPMEN IF THE TEST VOLTAGE WI THE ZERO CROSS. AT T SHOULD BE TAKEN OFF T IF THE TEST VOLTAGE MA ZERO CROSS IS THE POI	NERATED BY THE CAPACI SELF-GENERATED HEAT DI WHERE THE CAPACITOR DITY-K OF ØO.1MM UNDE DINGS. EXCESSIVE HEAT I NT WITH THE COOLING FA ITHSTANDING VOLTAGE AC WITHSTANDING VOLTA OR OVERLOAD EXCEEDING OD ING VOLTAGE IS APPLIED, NT, AND THEN THE VOLTAG ITHOUT THE RAISE FROM	ITOR BELOW THE UPPE FOR ITSELF. WHEN THE ( JE TO DIELECTRIC LOSS. IS SUBJECTED AT AN ATT R CONDITIONS WHERE T MAY LEAD TO DETERIORA N RUNNING. OTHERWISE AGE SHOULD BE USED Y THE SPECIFIED VOLTAGE CAPACITOR'S LEAD OR SE SHOULD BE RAISED FF NEAR ZERO VOLTAGE WI AE, THE TEST VOLTAGE ST I NEAR ZERO VOLTAGE TEST I NEAR ZERO VOLTAGE TEST	Capacitor is used Applied voltage LO Mosphere Temper, the Capacitor is N tion of the Capac , accurate Measur with the Perform Value is Applied, a terminal Should Rom Near Zero to Duld be Applied Di Should be Reduce Equipment. Volud be Applied I Sed.	In a high frequer ad should be suc ature of 25 °C. We ot affected by RA itor's characteri rement cannot be mance of the wav defect may be can be firmly connec the test voltage (i rectly to capacito d to near zero, <i>i</i>	NCY CURRENT, F CH THAT SELF-GE HEN MEASURING DIANT HEAT FRO STICS AND RELL E ENSURED.) (E SIMILAR TO S USED. (E SIMILAR TO S (E	GE. BE SURE TO TAKE INTO PULSE CURRENT OR SIMILAR NERATED HEAT IS WITHIN 20°C G, USE A THERMOCOUPLE OF M OTHER COMPONENTS OR ABILITY. (NEVER ATTEMPT TO 50/60HZ SINE WAVE. IF THE 50/60HZ SINE WAVE. IF THE PUT OF THE WITHSTANDING 50V/S). E SHOULD BE APPLIED WITH CITOR'S LEAD OR TERMINAL 电压正弦波 Voltage sine wave 过零点 Zero cross		
8.5. 8.6.	Your product if failu Capacitance change of Capacitors have an A For a long time. Mof Not likely to be suitag	re would result in an of capacitors .ging characteristic, v	electric shock, fire o Vhereby the capacitof Ght change greatly d INT time circuit.	r fuming. R continually decf	Reases its capacity	ance slightly I	Fe function like a fuse on F The Capacitor is left on I applied voltage. So, it is		

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BEFOR Gener Chara Be Su Curre More	RMANCE CHECK BY EQUIPMENT E USING A CAPACITOR, CHECK THAT THERE IS NO PROBLEM IN THE E IALLY SPEAKING, CLASS 2 (B/E/F CHAR.) CERAMIC CAPACITORS I ACTERISTICS IN CAPACITANCE. SO, THE CAPACITANCE VALUE MAY CH RE TO CONFIRM THE APPARATUS PERFORMANCE OF RECEIVING INF ENT AND NOISE SUPPRESSION CHARACTERISTIC. OVER, CHECK THE SURGE-PROOF ABILITY OF A CAPACITOR IN THE EQ DUCTANCE OF THE CIRCUIT.	Have voltage dependence charact Hange depending on the operating Fluence in the capacitance value ch	eristics and Condition in t Hange of a ca	'He Equipment. Therefore, Pacitor, such as leakage
8.8. Opera The IN Espec Befor Perfo Store Capac	Ting and storage environment sulating coating of capacitors does not form a perfect sea ially where chloride gas, sulfide gas, acid, alkali, salt or th e cleaning, bonding, or molding this product, verify rmance of a cleaned, bonded or molded product in the inti the capacitors where the temperature and relative hui itors within 6 months after delivered.	ie like are present. And avoid expos That these processes do not af Ended Equipment.	SURE TO MOISTU FECT PRODUCT	JRE. QUALITY BY TESTING THE
8.9.1. VIBRAT	Ring and Mounting fion and impact it success a canadition on its leads to successive success or wide			
8.9.2. Solde When Subje The Ce When Perfo Tempe Solde	IT EXPOSE A CAPACITOR OR ITS LEADS TO EXCESSIVE SHOCK OR VIB RING SOLDERING THIS PRODUCT TO A PCB/PWB, DO NOT EXCEED TH CTING THIS PRODUCT TO EXCESSIVE HEATING COULD MELT THE INTE ERAMIC ELEMENT. SOLDERING CAPACITOR WITH A SOLDERING IRON, IT SHOULD E RMED IN THE FOLLOWING CONDITIONS. ERATURE OF IRON-TIP: 320 DEGREES C. MAX. RING IRON WATTAGE: 40W MAX. RING TIME: 3.0 SEC. MAX.	ie Solder Heat Resistance Specific RNAL JUNCTION SOLDER AND MAY RES	Sult in Therma	,
BEFOR PERFO IN CAS ACETAI IT MAY THE V	NG, RESIN MOLDING AND COATING E BONDING, MOLDING OR COATING THIS PRODUCT, VERIFY THAT RMANCE OF THE BONDED, MOLDED OR COATED PRODUCT IN THE IN SE THE AMOUNT OF APPLICATIONS, DRYNESS/HARDENING CONDITIC IE, METHYL ETHYL KETONE, TOLUENE, ETC.) ARE UNSUITABLE, THE OL Y RESULT, WORST CASE, IN A SHORT CIRCUIT. ARIATION IN THICKNESS OF ADHESIVE, MOLDING RESIN OR COA (ING OF A CAPACITOR IN A TEMPERATURE CYCLING.	Tended Equipment. INS of Adhesives and Molding Resi ITER Coating Resin of a Capacitor IS	ie quality of NS containing Damaged by 1	Capacitor by testing the Gorganic Solvents (ethyl The organic Solvents and
8.9.4. Clean To Per Rinse Rinsin Do No	(Ing of a capacitor in a temperature cycling. Ing (ultrasonic cleaning) Rform ultrasonic cleaning, observe the following condition Bath capacity: Output of 20 watts per liter or less. Ig Time: 5 min. Maximum. It vibrate the pCB/pWB directly. Sive ultrasonic cleaning may lead to fatigue destruction of			

