

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	′5U/300VAC/AEC-Q200	
日期 DATE	2022-07-08	文件编号 DOC. NO.	DEC-SA-WI010

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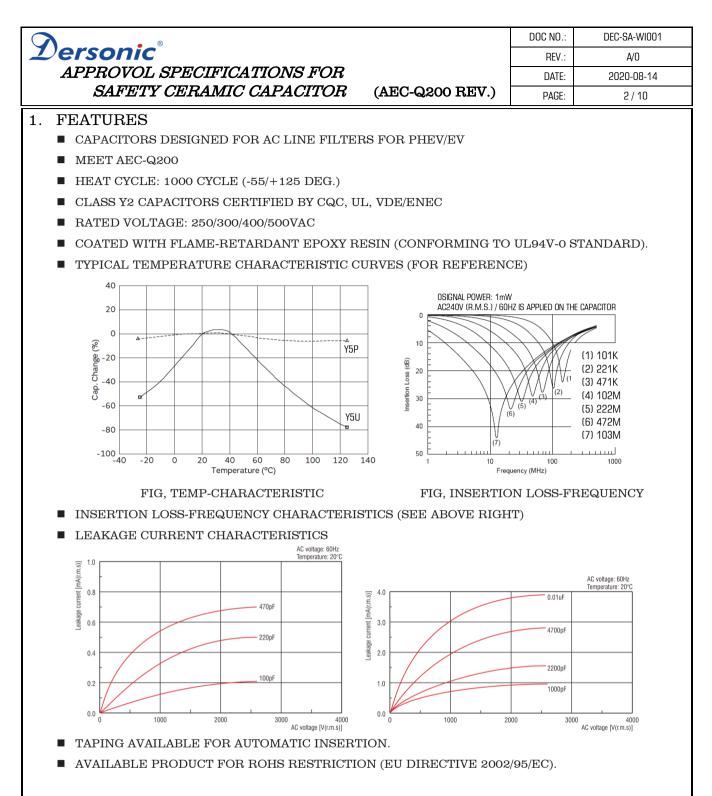
APPROVOL SPECIFICATIONS FOR SAFETY CERAMIC CAPACITOR

(AEC-Q200 REV.)

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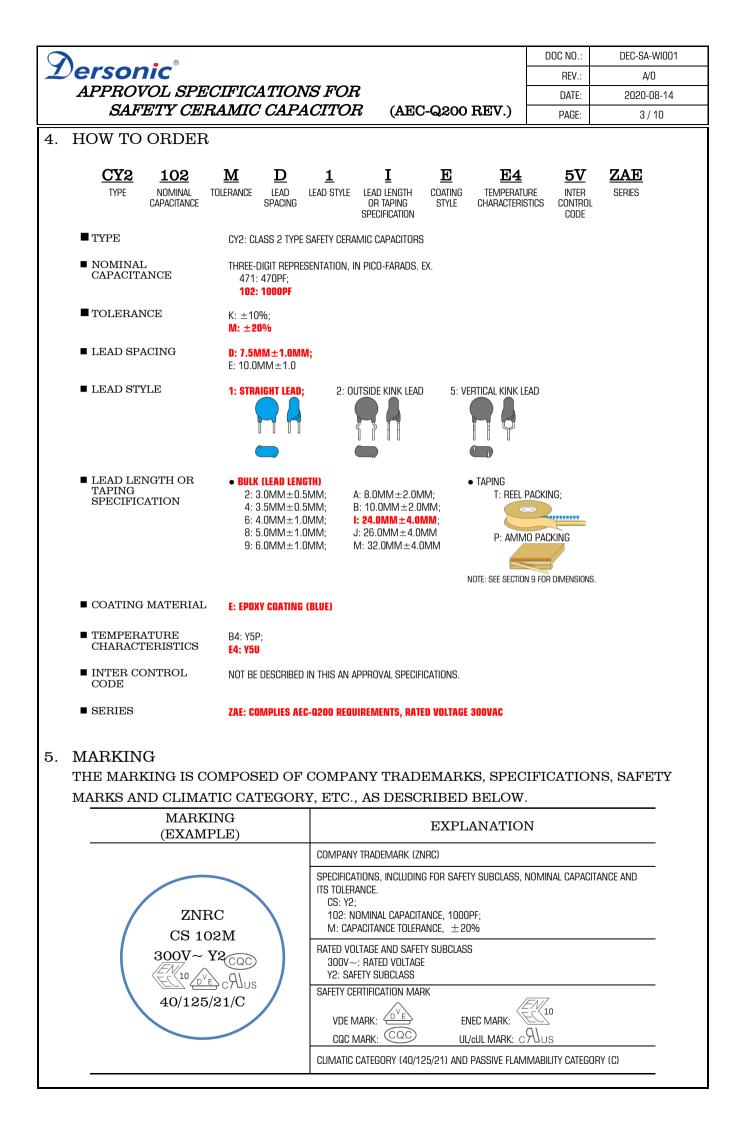


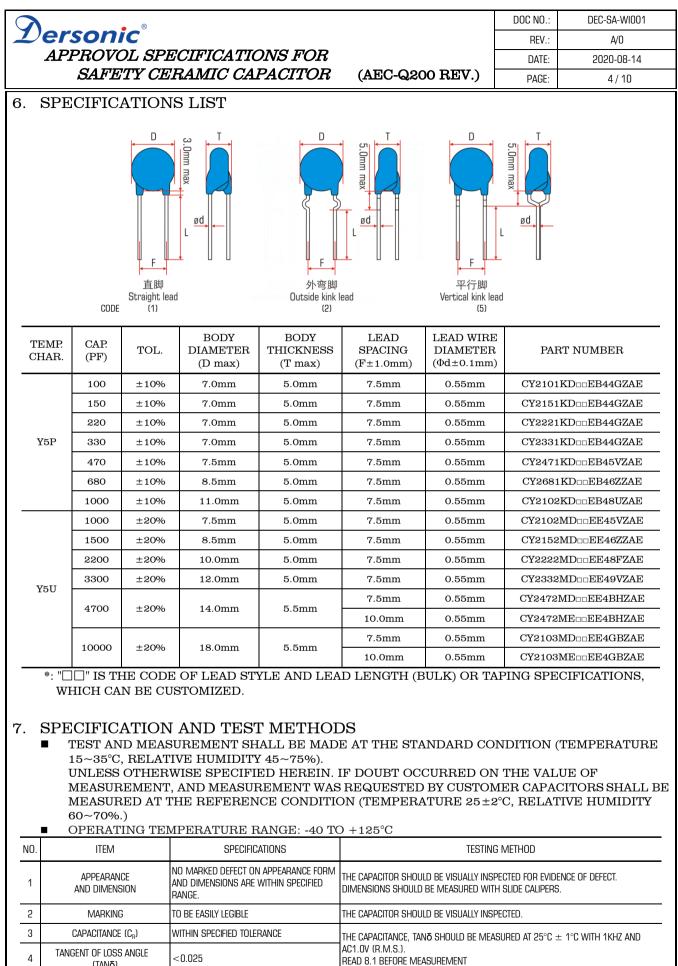
2. APPLICATIONS

- 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		CERTIFICATE NUMBER						
	c FL 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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CO	NTINUED FROM	THE PRECE	DING PAGE				
NO.	ITEM		SPECIFICATIONS		TES	ITING N	Nethod
		LEAD	No failure	The capacitor should not be damaged when test voltages of following table are applied between the lead wires for 60 sec. (charge/discharge current \ll 50MA)			
		WIRES			TYPE TEST VOLT	AGE	Y2 AC2500V
6	6 TEST VOLTAGE (TV) BODY INSULATION		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.			
					TYPE TEST VOLT	ΔGE	Y2 AC2500V
7	TEMPERATURE CHA	RACTERISTICS	Y5P: WITHIN ±10% Y5U: WITHIN +20/-55% (TEMP. RANGE: -25 TO +85°C)	THE CAPACITANCE MEASUREMENT SHOULD BE MADE AT ELEMPERATURE (°C 1 +20 \pm 2 -25 \pm 2 -20 \pm 2 -25 \pm 2 -20 \pm 2 -20{\pm}2 -20{\pm}2 -20{\pm}2 -20 \pm 2 -20{\pm}2 -2		BE MADE AT EACH STEP SPECIFIED IN PERATURE (°C) +20±2 -25±2 +20±2 +85±2 -20±2 -20±2	
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 INTO STEAM AGING FOR 8H ± 15MIN. AFTER THE STEAM AG THE LEAD WIRE OF A CAPACITOR SHOULD BE DIPPED INTO AN ETHANOL SOLUTIOI 25% ROSIN AND THEN INTO MOLTEN SOLDER FOR 5+0/-0.5S. THE DEPTH OF IMMERSION IS UP TO ABOUT 1.5 TO 2.0MM FROM THE ROOT OF WIRES. TEMP. OF SOLDER: LEAD FREE SOLDER (SN-3AG-0.5CU) 245±5°C H63 EUTECTIC SOLDER (PB37/SN63) 235±5°C			
		APPEARANCE	No Marked Defect	AS SHOWN IN THE FIGU SHOULD BE IMMERSED 260±5°C UP TO 1.5 TC	re, the lead In solder of	WIRES	
9	Resistance to	∆ C/C	±10%	ROOT OF TERMINAL FOF PRE-TREATMENT: CAPACITOR SHOULD E	₹10±1S.		Thermal screen
5	Soldering heat	IR	>2000MΩ	125±3°C FOR 1H, TH ROOM CONDITION FO INITIAL MEASUREMEN	ien placed a' R 24±2h bef	Т	Molten solder
		TV	Per Item 6	POST-TREATMENT: CAPACITOR SHOULD BE STORED FOR 1 TO 2H AT ROOM CONDITION.			
		APPEARANCE	NO MARKED DEFECT	Solder the capacitor to the test jig resin board) by resin (Adh	(ADHESIVE)(G		
10	VIBRATION RESISTANCE	C _R	WITHIN THE SPECIFIED TOLERANCE	MINUTES RATE OF VIBRA	Wire, 1.5MIV Ation Chang	1 in tot E fron	TAL AMPLITUDE, WITH ABOUT A 20 1 10HZ TO 2000HZ AND BACK TO 10HZ.
		TANō	PER ITEM 4	PERPENDICULAR DIRECT	TIONS (TOTAL		in Each of 3 Mutually "IMES).
		APPEARANCE	NO MARKED DEFECT	Solder the capacitor to the test jig (glass			
11	MECHANICAL	C _R	WITHIN THE SPECIFIED TOLERANCE	(adhesive). Three shocks in each	I DIRECTION S	Hould	BE
	SHOCK	τανδ	<0.050	Specimen (18 Shocks The Specified test pui	6). Lse should b	e half	r axes to and from of the test -Sine and should have a duration:
		TV	>10000MΩ	0.5MS, PEAK VALUE: 10	JUG AND VELC	ICITY CI	Hange: 4./m/s

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NO.). ITEM		SPECIFICATIONS	TESTING METHOD				
		APPEARANCE	No marked defect	SET THE CAPACITOR FOR 1000 \pm 12H at 85 \pm 3°C in 80 to 85% relative humidity.				
HUMIDITY		∆C/C	Y5P: ±10% Y5U: ±15%	PRE-TREATMENT:				
12 (UNDER	(UNDER STEADY	τανδ	< 0.050	CAPACITOR SHOULD BE STORED AT 125±3°C FOR 1H, THEN PLACED AT ROOM CONDITION FOR 24±2H BEFORE INITIAL MEASUREMENTS.				
12 (UNDER STEADY STATE)		IR	>2000MΩ	Post-treatment: Capacitor should be stored for 1 to 2H at room condition*.				
		TV	PER ITEM 6					
		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 humidity. Pre-treatment:				
13 HUMIDITY LOADING		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: 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.				
14	LIFE	∆C/C	±20%	APPLY A VOLTAGE FROM FOLLOWING TABLE FOR 1000H AT 125+2/-0°C, AND RELATIVE HUMIDITY OF 50% MAX.				
14	4 LIFE 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 CONDITION FOR 24±2H BEFORE INITIAL MEASUREMENTS. POST-TREATMENT: CAPACITOR SHOULD BE STORED FOR 1 TO 2 HRS. AT ROOM CONDITION.				
15			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±1S.				
	TERMINATIONS	Bending		each lead wire should be subjected to 5N of weight and bent 90° at the point of egress, in one direction, then returend to its original position and bent 90° in the opposite direction at the rate of one bend in 2 to 3S.				
16	active flav	MABILITY	THE CHEESE-CLOTH SHOULD NOT BE ON FIRE.	THE CAPACITOR SHOULD BE INDIVIDUALLY WRAPPED IN AT LEAST ONE BUT NOT MORE THAN 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.				
17	7 Passive flammability		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 BEST PROMOTES BURNING. EACH SPECIMEN SHOULD ONLY BE EXPOSED ONCE TO THE FLAME. TIME OF EXPOSURE TO FLAME: 30 SEC.				

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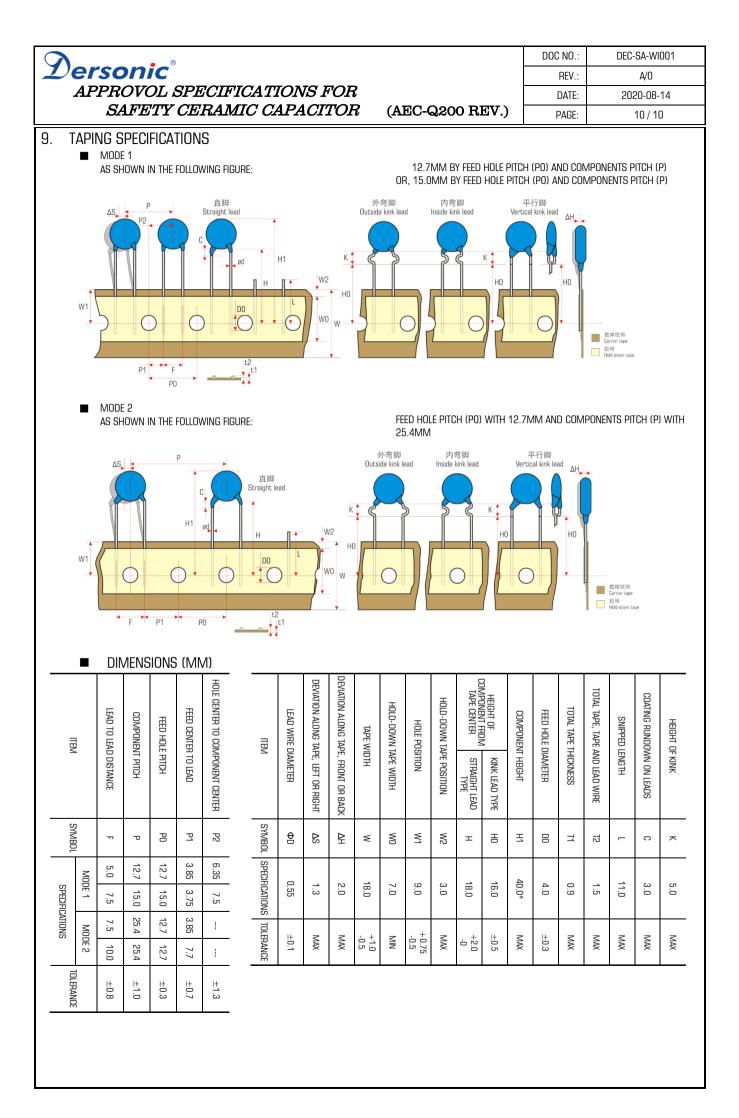
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NO.	ITEN	Λ	SPECIFICATIONS		TES	STING METHOD				
		APPEARANCE	No marked defect	The <u>Capacitor</u> should b	e subjected	to 1000 temper	ATURE CYCLES.			
		∆C/C	Y5P: ±10% Y5U: ±20%	STEP TEMPERATURE	-55	2 ROOM	3 125	4 ROOM		
18	18 TEMPERATURE AND IMMERSION	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		±2°C FOR 1H., A	ND THEN PLACI	ed at room		
		TV	PER ITEM 6	CONDITION FOR 24±2 H. POST-TREATMENT: CAPACITOR SHOULD BE STORED FOR 24±2 H. AT ROOM CONDITION.						
		∆C/C	±20%	SET THE CAPACITOR FOR 1000 \pm 12H AT 150 \pm 3°C.						
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 ± 2 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: CAPACITOR SHOULD BE S			1			
		IR	>3000MΩ	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 3: 42 Parts (by volume) of water						
		IR	>3000MΩ			opylene glycol i Noethanolomin		ETHER		
		APPEARANCE	No marked defect	Apply the rated voltage 80 to 85% humidity for		0.2/-0V (ADD 6.8	BKΩ RESISTOR) AT 85±3°C AND		
22	BIASED	∆C/C	Y5P: ±10% Y5U: ±20%	PRE-TREATMENT: CAPACITOR SHOULD BE S		5+3°C FOR 1H 1	(HEN PLACED A	T BOOM CONDITION		
	HUMIDITY	TANΔ	<0.050	FOR 24±2H.						
		IR	>3000MQ	POST-TREATMENT: CAPACITOR SHOULD BE S	STORED FOR 2	$4\pm2H$ at room	CONDITION.			
		APPEARANCE	NO MARKED DEFECT	APPLY 24H OF HEAT (25 TC 10 CONSECUTIVE TIMES. PRE-TREATMENT: CAPACITOR SHOULD BE S FOR 24±2H.						
00	Moisture	∆C/C	Y5P: ±10% Y5U: ±20%			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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	SAFETY	CERAMIC C	APACITOR	(AEC-Q2	200 REV.)	PAGE:	8 / 10	
8. 8.1. 8.1.1.	8.1. MEASUREMENT NOTICE PLEASE MEASURE UNDER THE FOLLOWING CONDITIONS.							
	Temperature, °C relative humidity, % Air Pressure, 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 _{P-P}		Å.				
8.3.8.4.8.4.1.8.4.2.	 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 SIMILAR CURRENT, IT MAY HAVE SELF-GENERATED HEAT DUE TO DIELECTRIC LOSS. APPLIED VOLTAGE LOAD SHOULD BE SUCH THAT SELF-GENERATED HEAT IS WITHIN 20' UNDER THE CONDITION WHERE THE CAPACITOR IS SUBJECTED AT AN ATMOSPHERE TEMPERATURE OF 25 ℃. WHEN MEASURING, USE A THERMOCOUPLE OF SMALL THERMAL CAPACITY-K OF Ø0.1MM UNDER CONDITIONS WHERE THE CAPACITOR IS NOT AFFECTED BY RADIANT HEAT FROM OTHER COMPONENTS OR WIND FROM SURROUNDINGS. EXCESSIVE HEAT MAY LEAD TO DETERIORATION OF THE CAPACITOR'S CHARACTERISTICS AND RELIABILITY. (NEVER ATTEMPT TO PERFORM MEASUREMENT WITH THE COOLING FAN RUNNING. OTHERWISE, ACCURATE MEASUREMENT CANNOT BE ENSURED.) 4. TEST CONDITION FOR WITHSTANDING VOLTAGE 4.1. TEST EQUIPMENT TOR SUTHSTANDING VOLTAGE SHOULD BE USED WITH THE PERFORMANCE OF THE WAVE SIMILAR TO 50/60HZ SINE WAVE. IF THE DISTORTED SINE WAVE OR OVERLOAD EXCEEDING THE SPECIFIED VOLTAGE VALUE IS APPLIED, A DEFECT MAY BE CAUSED. 							
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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	PROVOL SPECIFICATIONS FOR		DATE:	2020-08-14
	SAFETY CERAMIC CAPACITOR	(AEC-Q200 REV.)	PAGE:	9 / 10
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 vibr Ring Soldering this product to a pcb/pwb, do not exceed th Cting this product to excessive heating could melt the inte Framic element. Soldering capacitor with a soldering iron, it should e RMED in the following conditions. Frature 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			



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 YU0AH222M090DAMD0B
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