Performance

"room condition" temperature : 20~35 $^\circ\!\mathrm{C}$, humidity: 45~75%, atmospheric pressure 86~106kPa.

No.	Item		Specification		Test Condition				
1	Dielectric Strength	Between lead wires	No failure		The capacitors shall not be damage when AC2600V(for Y2 Class) and AC4000V (for Y1 Class) are applied between the lead wires for 60 sec. (charge/discharge current < 50mA)				
		Body insulation	No failure		First the together. the body each terr container AC2600V wires and (charge/d	termina Then a of the c minal. Th filled witi / is appli f metal ba lischarge	als met capa hen h m ied alls. e cu	of the capacitor s tal foil shall be close acitor distance of ab the capacitor shall netal balls of about 1r for 60 sec. betweer rrent \leq 50mA)	shall be connected ely wrapped around bout 3 to 4mm from be inserted into a nm diameter. Finally the capacitor lead
2	Insulation		10000M Ω min		The insulation resistance shall be measured with				
	Resistance (I.R.)				500±50VDC w		60±	5 sec of charging.	
3	Capacitance		Within specified tolerance.		C	har		Frequency	Voltage
					NP	O/SL		1MHz±20%	5.0 Vrms Max
					Y5P/Y	5U/Y5V		1KHz±20%	
					I he measurement at reference temperature 25° C				
4	Dissipation F	actor(D.F.)	Char.	Specified	The Capa	acitance s	sha	II be measured At 25	℃ with 1±0.1KHZ
			NPO/SL	Q≤300	for X7R&Y5P, with 1 ± 0.1 MHZ for COG and 5Vrms max.				d 5Vrms max.
			Y5P	D.F ≧ 2.5%					
			15U/15V	D.F≧5.0%					
5	Temperature		Char.	Vithin+60ppm	The Capacitance measurement shall be made at each step specified in Table.				
	Characteristi	.		1000%					
	Ondractenstic		V5P	+350~1000 //		Sten		Temperature	
			Y5U	-56%/+22%	_	Otep		P.F	
			Y5V	-82%/+22%	-	1		+25±2 ℃	
			_		-	2		Min. operation ter	mp.
						3		+25 ±2℃	
						4		Max. operation te	mp.
						5		+25±2℃	
					Pre-treatr	ment:			
					Capacitor placed at measurer	r shall be room co ments.	sto ndit	ored at max. tempera tion for (※)24±2 hou	ture for 1hour. Ther rs before
6	Robustness Tensile Lea of Termination		Lead wire Capacitor	e shall not cut off 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 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.				
		Bending	Lead wire Capacitor	e shall not cut off shall not be broken.	With the t by its bod vertical : a from the e then inclin a approxi its initial p constitute second b	termination dy in such a mass a end of the ned within mately 90 position o es one be end in the	on in apply e te n a 0 in over end. e op	n its normal position f manner that the axis ying a force of 5N is rmination. The body period of 2 to 3 sec., the vertical plane ar the same period of f One bend immediat pposite direction.	the specimen is held of the termination is then suspended of the specimen is through an angle o ad then returned to time; this operation ely followed by a

No.	Item		Specification		Test Condition			
7	Soldering	Appearance	No mark	ked defect.	Solder temperature: 350 \pm 10°C (or 260 \pm 5°C)			
	Effect	I.R.	1000M	2 min	Immersion time: 3.5 ± 0.5 sec			
	Dielectric Strength		Per Item 1.		(In case of 260±5°C; 10±1sec)			
					be a position 2 +0/0 5mm			
		Capacitance	Within ±	-10%	From the seating plane. Using a thermal insulating screen of 1.5±0.5mm thickens. Pre-treatment: Capacitor shall be stored at 85±2°C for 1 hour. Then placed at room condition (%)for 24±2 hours before initial measurements			
					Post-treatment:			
					Capacitor shall be stored for 1 to 2 hours at room condition.			
8	Humidity	Appearance	No mark	ed defect	Set the capacitor for 500+12 hours at $40+2^{\circ}$ C, in 90 to 95% humidity.			
0	(Under Steady	Capacitance	NPO	\leq 5%of initail	Then Capacitor shall be stored for 1 to 2 bours at room condition			
			SL	\leq 5% of inital				
	State)		Y5P	$\leq 10\%$ of inital	-			
			Y5U	$\leq 15\%$ of inital	-			
			Y5V N/S	\geq 30% of initali	-			
		D.I.	P	≤ 100 max	•			
			E/F	$\leq 7.5\%$ max				
		I.R.	3000M	$2 \min$				
		Dielectric	Per Item	1.	-			
		Strength						
9	Humidity Loading	Appearance	No mark	ked defect	Apply the rated voltage for 500 \pm 12 hours at 40 \pm 2 $^\circ\!C$, in 90 to 95%			
		Capacitance	NPO	\leq 5% of inital	humidity and set it for 1 to 2 hours at room condition.			
			SL	\leq 5% of inital	-			
			Y5P	\geq 10% of inital	-			
			15U VEV	\geq 15%01 initial	-			
		DE	N/S	\geq 30%01 IIII.dll				
		D.I.	P	$\leq 5.0\%$ max	•			
			F/F	$\leq 7.5\%$ max				
		I.R.		$\sum_{i=1}^{n}$ min	4			
		Dielectric	Per Item	<u> </u>	•			
		Strength						

No.	Item		Specification		Test Condition		
10	Life	Appearance		ked defect	Impulse Voltage		
		Capacitance	NPO	\leq 5% of initail	Each individual capacitor shall be subjected to $5KV/(V2)$ and		
			SL	\leq 20% of initail	8KV(Y1) impulses for these times. After the capacitors are applied		
			Y5P	\leq 20% of initail	to life test. [1000brs]		
			Y5U	\leq 20% of initail	Fig. 90 T1=1.2 μ sec1=1.67T		
			Y5V	\leq 30% of initail	T2=50usec1		
		I.R.	3000M (2 min			
		Dielectric	Per Item	n 1 .	30		
		Strength					
		Discharge	No failur	е	\leftarrow T1		
		Test (Ⅱ)			T2		
					The specimen capacitor are placed in a circulating air oven for a period of 1000 hours. The air in the oven is maintained at a temperature of $125\pm2^{\circ}$ C. Throughout the test the capacitors are subjected to a 1.7Ur alternating voltage of mains frequency. Except that once each hour the voltage is increased to 1000Vrms for 0.1sec.		

11	Flame Test The capacitor flame discontinue as follows.		The capacitor shall be subjected to applied for 15 sec. And then removed for 15 sec, until 5 cycle.
		CycleTime1to 430 sec. max.560 sec. Max.	Gas Burner (Lipit: mm)
12	Active Flammability	The cheese-cloth shall not be on fire	(Unit: mm) The specimens shall be individually wrapped in at least one but more than two complete layers of cheese-cloth 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. I = I + I = I + I = I + I + I = I + I +

No.	Item	Specification	Test Condition
13	Passive Flammability	The burning time shall not be exceeded the time 30sec. The tissue paper shall not ignite.	The capacitor under test shall be held in the flame in the position, which best promotes burning. Each specimen shall only be exposed once to the flame.
			Time of exposure to flame : 30 sec.
			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.
			Tissue (Unit : mm)