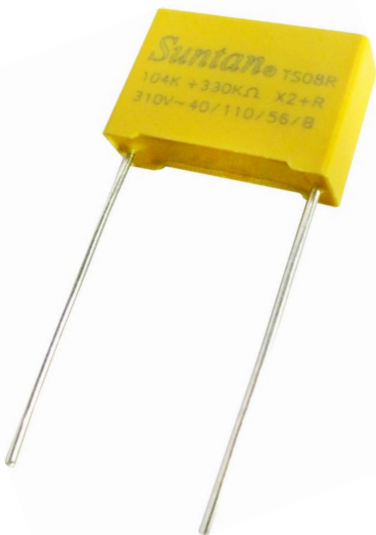
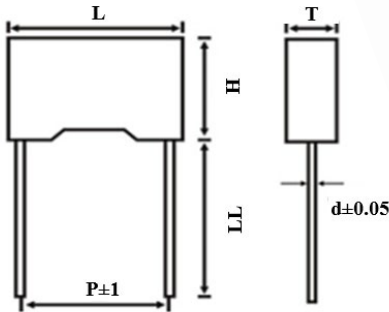


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Outline Drawing



Semi-finished products

Dimensions: (mm)

CAP	R.V.	Tol.	L	T	H	LL	P	d
uF	VAC	±%	±1.0mm	±1.0mm	±1.0mm	Min(mm)	±1.0mm	±0.05mm
0.1	275/305/310	10	18	6	12	18	15	0.8
	275/305/310	10	18	7.5	13.5	18	15	0.8
	275/305/310	10	18	8.5	14.5	18	15	0.8
	275/305/310	10	26.5	6	15	18	22.5	0.8
0.12	275/305/310	10	18	6	12	18	15	0.8
0.13	275/305/310	10	18	6	12	18	15	0.8
0.14	275/305/310	10	18	6	12	18	15	0.8
0.15	275/305/310	10	18	6	12	18	15	0.8
	275/305/310	10	18	7.5	13.5	18	15	0.8
	275/305/310	10	18	8.5	14.5	18	15	0.8
	275/305/310	10	26.5	6	15	18	22.5	0.8
0.18	275/305/310	10	18	6	12	18	15	0.8
	275/305/310	10	18	7.5	13.5	18	15	0.8
	275/305/310	10	18	8.5	14.5	18	15	0.8
	275/305/310	10	18	9.5	15.5	18	15	0.8
	275/305/310	10	26.5	6	15	18	22.5	0.8
0.22	275/305/310	10	18	6	12	18	15	0.8
	275/305/310	10	18	7.5	13.5	18	15	0.8
	275/305/310	10	18	8.5	14.5	18	15	0.8
	275/305/310	10	18	9.5	15.5	18	15	0.8
	275/305/310	10	26.5	7	16.5	18	22.5	0.8
0.27	275/305/310	10	18	7.5	13.5	18	15	0.8
	275/305/310	10	18	10	16	18	15	0.8
	275/305/310	10	26.5	7	16.5	18	22.5	0.8

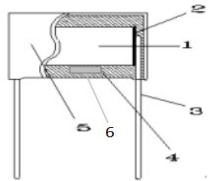
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Dimensions: (mm)

CAP	R.V.	Tol.	L	T	H	LL	P	d
uF	VAC	±%	±1.0mm	±1.0mm	±1.0mm	Min(mm)	±1.0mm	±0.05mm
0.33	275/305/310	10	18	7.5	13.5	18	15	0.8
	275/305/310	10	18	8.5	14.5	18	15	0.8
	275/305/310	10	18	9.5	15.5	18	15	0.8
	275/305/310	10	18	10	16	18	15	0.8
	275/305/310	10	26.5	7	16.5	18	22.5	0.8
0.39	275/305/310	10	18	8.5	14.5	18	15	0.8
	275/305/310	10	18	10	16	18	15	0.8
	275/305/310	10	26.5	7	16.5	18	22.5	0.8
	275/305/310	10	26.5	8.5	17	18	22.5	0.8
0.47	275/305/310	10	18	7.5	13.5	18	15	0.8
	275/305/310	10	18	8.5	14.5	18	15	0.8
	275/305/310	10	18	9.5	15.5	18	15	0.8
	275/305/310	10	18	10	16	18	15	0.8
	275/305/310	10	26.5	8.5	17	18	22.5	0.8
	275/305/310	10	26.5	10	19	18	22.5	0.8
0.56	275/305/310	10	26.5	8.5	17	18	22.5	0.8
	275/305/310	10	26.5	10	19	18	22.5	0.8
0.68	275/305/310	10	26.5	8.5	17	18	22.5	0.8
	275/305/310	10	26.5	10	19	18	22.5	0.8
0.82	275/305/310	10	26.5	10	19	18	22.5	0.8
	275/305/310	10	26	12	21.6	18	22.5	0.8
1	275/305/310	10	26.5	10	19	18	22.5	0.8
	275/305/310	10	26	11	20	18	22.5	0.8
	275/305/310	10	26	12	21.6	18	22.5	0.8

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Product name	Metallized Polypropylene Film RC Capacitor (Class X2)	
Reference Standard	GB/T 2693 (IEC 60384-1) GB/T14472 (IEC 60384-14)	
Construction	 1. Metallized polypropylene film 2. Metal spray 3. Lead wire 4. (UL94V-0) Flame retardant Epoxy resin coating 5. (UL94V-0) Flame retardant plastic box 6. Parallel resistors	
Atmospheric conditions IEC 68-1	Standard atmospheric conditions (IEC 68-1-5.3) Base condition: (IEC 68-1-5.1) Temperature: 15°C~35°C Air pressure: 86KPa~106KPa Temperature: 20°C Humidity: 25%~75% Air pressure: 101.3KPa	
Technology Specifications	Climatic category: 40/110/56 Capacitor series: X2 RC Operating Temperature: -40°C~110°C Permissible DC voltage 630VDC at 85°C Permissible DC voltage 460VDC at 110°C Rated Voltage: 275/305/310VAC Capacitance Range: 0.1~1.0μF Capacitance Tolerance: ±10% (K) Voltage Proof: Between two leads 1000V(DC) (2S) Cut off current: 50mA Between Terminals to Case: 2120VAC Dissipation Factor: ≤0.04 (1kHz, 20°C)	
Parallel Resistor	330KΩ~1MΩ ±10% (50Hz 20°C)	
Solder ability IEC 68-2-20	Soldering temperature: 235°C±5°C Immersion duration: 2.0s±0.5s Good Tinning	
Soldering heat IEC 68-2-20 GB 14472-4.4	Soldering temperature: 260°C±5°C Immersion duration: 10s±1s Dip depth from the mounting surface 2+0/-0.5mm, using the thickness of insulation shielding plate 1.5mm ± 0.5mm Capacitance change: Δ C/C: ≤ 5%	
Temperature Cycling IEC 68-2-14	Temperature: θ A = -40°C; θ B = +105°C Time duration: 30min. Cycling times: five times Capacitance change: Δ C/C: ≤ 5%	

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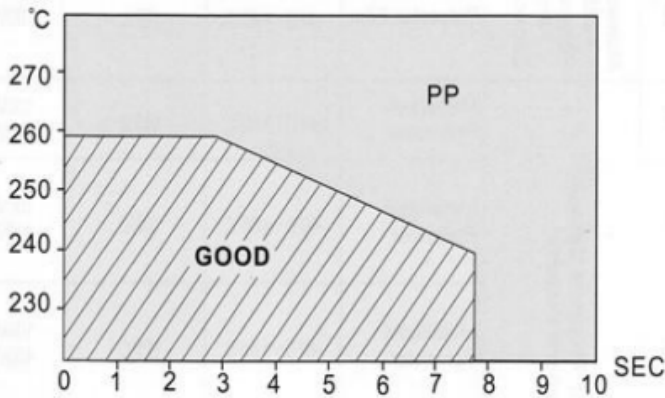
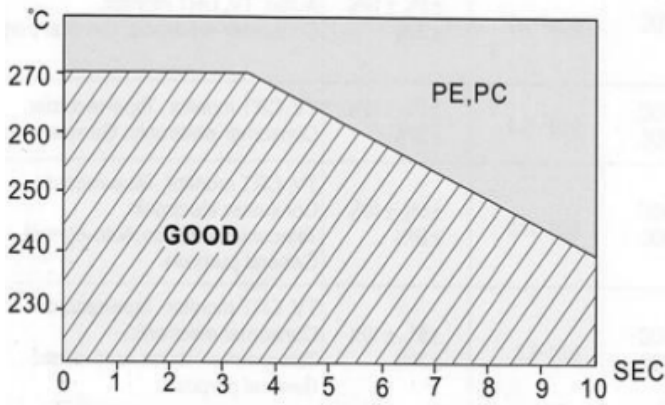
Vibration IEC 68-2-6	Frequency: 10~500Hz Time and direction: Each of the three directions for two hours, total duration about 6 hours Amplitude 0.75mm OR acceleration 98m/s ² (Taking the severity of lower) No visible damage and deterioration in appearance		
Bump IEC 68-2-29	Bump times: 4000 Acceleration: 390m/s ² Pulse duration: 6ms No visible damage and deterioration in appearance		
Climatic Sequence	Dry heat IEC 68-2-2	Temperature: +110°C Time duration: 16hours	Final measurement No breakdown or flashover.
	Damp heat cycle	Test Db, Severity b, the first cycle	No visible damage and deterioration in appearance and the marking shall be legible
	Cold IEC 68-2-1	Temperature: -40°C Time duration: 2hrs	Capacitance change: $\Delta C/C : \leq 10\%$
	Low Air pressure IEC 68-2-13	Temperature: 15°C—35°C Air Pressure: 8.5KPa Time duration: 1hr (apply UR at the 1 minute.)	DF change: $CR \leq 1.0\mu F \quad \Delta \tan \delta : \leq 0.8\%$ $CR > 1.0\mu F \quad \Delta \tan \delta : \leq 0.5\%$ at 1 KHZ.
Damp heat cycle IEC 68-2-30	Temperature: 25°C—35°C Relative humidity: $\geq 85\%$ Time: one cycle (24h) apply UR at the 1 minute		Same as above
Damp Heat Test IEC 68-2-3	Temperature: 40°C $\pm 2^\circ\text{C}$ Humidity: 93 +2/-3 % Time Duration: 21days No visible damage and deterioration in appearance and the marking shall be legible Capacitance change: $\Delta C/C : \leq 10\%$ DF Change: $CR \leq 1.0\mu F \quad \Delta \tan \delta : \leq 2.4\%$ at 1 KHZ $CR > 1.0\mu F \quad \Delta \tan \delta : \leq 1.5\%$ at 1 KHZ		
Durability	Temperature: +110°C Voltage: 1.25UR (50Hz) Duration: 1000hours, the voltage should be applied to each capacitor though $47\Omega \pm 5\%$ resistance. No visible damage and deterioration in appearance and the marking shall be legible Capacitance change: $\Delta C/C : \leq \pm 10\%$ DF change: $CR \leq 1.0\mu F \quad \Delta \tan \delta : \leq 0.8\%$ at 1 KHZ $CR > 1.0\mu F \quad \Delta \tan \delta : \leq 0.5\%$ at 1 KHZ		

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Flame Resistance Test	Flame Resistance Class: B Flame Applying Times: 1 time Flame Applying Time: <table><tr><td>$250 < V(\text{mm}^3) \leq 500$</td><td>20s</td></tr><tr><td>$500 < V(\text{mm}^3) \leq 1750$</td><td>30s</td></tr><tr><td>$V(\text{mm}^3) > 1750$</td><td>60s</td></tr></table> Burn dropping or dropped hot part cannot fire face tissues Burning time for rest flame: 10s. No requirement of charge measurement.	$250 < V(\text{mm}^3) \leq 500$	20s	$500 < V(\text{mm}^3) \leq 1750$	30s	$V(\text{mm}^3) > 1750$	60s
$250 < V(\text{mm}^3) \leq 500$	20s						
$500 < V(\text{mm}^3) \leq 1750$	30s						
$V(\text{mm}^3) > 1750$	60s						
Pyrophoricity Test	$U = U_R$ $U_i = 2.5\text{kV} +_0^7\%$						
If there are parallel resistors, this item is not applicable.	Each sample should bear one storage capacitor for 20 times. Discharging storage charge for tested capacitor to U_i voltage. The interval between discharging should be 5S. Gauze which wind on capacitor should be not burned by flame. No requirement of current measurement.						

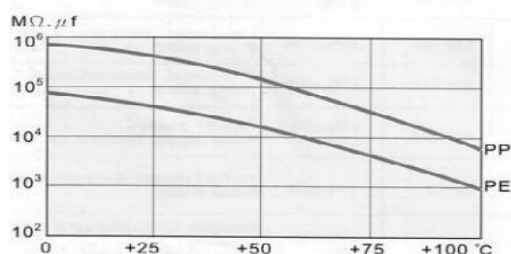
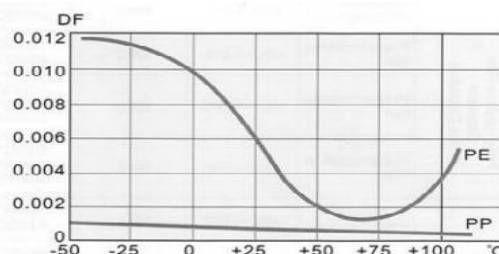
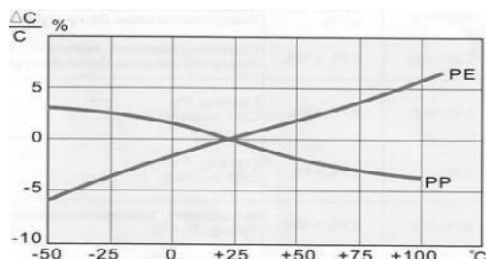
Soldering Temperature VS Time



Note: Thin-film capacitors are not suitable for reflow soldering, otherwise the product may experience performance issues due to thermal shrinkage.

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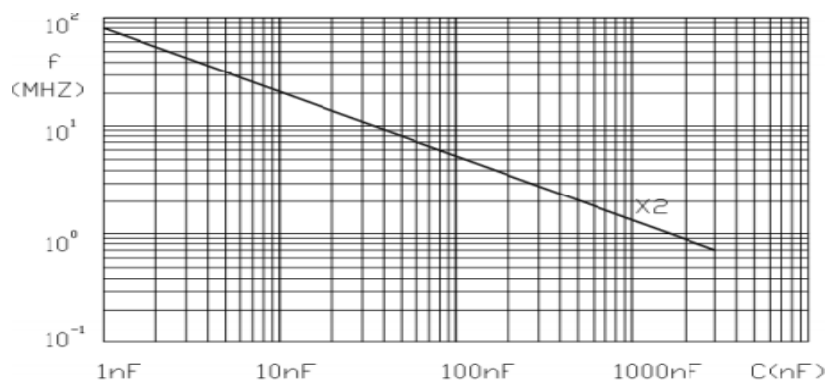
Temperature Characteristics



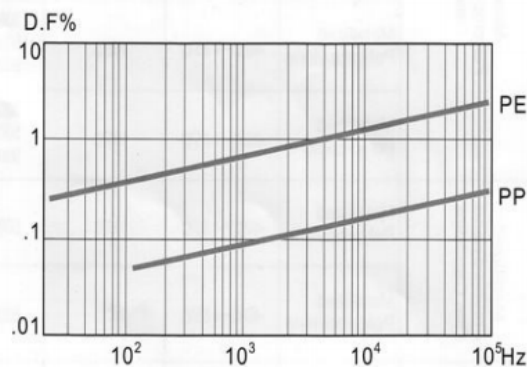
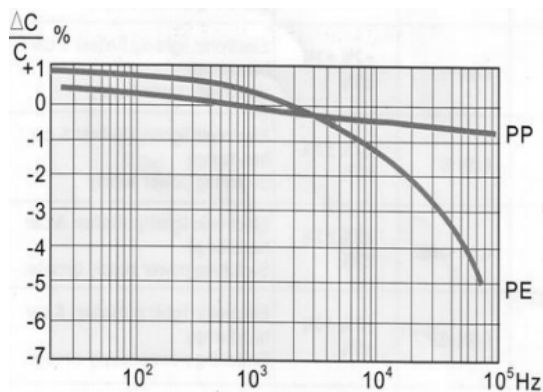
PP: (Polypropylene Film)

PE: (Polyester Film)

Capacity-frequency Characteristic



Frequency and capacitance loss variation curves



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.