

STRONG COMPONENTS CO., LTD.
METALLIZED POLYPROPYLENE FILM CAPACITOR

Type: **PPS**

SPECIFICATIONS

No	項目 Item	性能 Performance	條件 Test Conditions	參考標準 Reference Standard	
1	使用溫度範圍 Operating Temperature Range	-40°C ~ +110°C (+85°C to 110°C: decreasing factor 1.25% per °C for VR(DC))		IEC 60384-16 2.1.12.2.5	
2	額定電壓 Rated Voltage	1000VDC		IEC 60384-14 2.2.3	
3	耐電壓 Withstand Voltage	端子間 Between Terminals 端子外裝間 Between Terminals & Enclosure	無 Short 現象. Rated voltage x 160% 10 sec Charge and discharge current shall not exceed 10 mA	IEC 60384-16 4.2.1	
4	Rated Voltage Pluse slope dv/dt	P: 15.0mm 2000v / μ s	Test temp: 20°C		
5	絕緣阻抗 Insulation Resistance	$C \leq 0.33\mu F$ $C > 0.33\mu F$	VR > 100V 25,000M Ω min VR \leq 100V 12,500M Ω min VR > 100V 7,500M Ω * μF min VR \leq 100V 3,750M Ω * μF min	Charge time: 60 \pm 5sec. Charge voltage: VR < 100VDC: 50VDC VR < 500VDC: 100VDC VR \geq 500VDC: 500VDC Test Temp: 20°C	IEC 60384-16 4.2.4
6	靜電容量 Capacitance	於指定範圍內 Within specified tolerance	at 1 KHz \pm 10% Measure voltage at 1 Vrms Test temp: 20°C	IEC 60384-16 4.2.2	
7	散逸因數 Dissipation Factor	0.1 % max at 1KHz	Measure voltage at 1 Vrms Test temp: 20°C	IEC 60384-16 4.2.3	
8	端子強度 Terminal Strength	抗拉強度 Pull Strength 扭轉強度 Bending Strength	端子不鬆斷 No cutting or slack of terminals Wire diameter: 0.6&0.8mm Load: 1 kg, time: 10 sec. Wire diameter: 1.0 mm Load: 2 kg, time: 20 sec. Wire diameter: 0.6&0.8 mm 1.0&1.2 mm 90° x 4 time	IEC 60384-16 4.3	
9	耐震性 Vibration Proof	無明顯異常 No abnormality of the appearance	Frequency range 10-55-10-55 Hz Amplitude: 0.75 mm, 2 hrs/direction for 3 directions	IEC 60384-16 4.7	
10	焊錫附著性 Solder ability	導線浸入後的表面至少需附著 95% 的新焊錫 At least 95% of the surface of the lead wire dipped into is covered with new solder.	Solder temp: 245°C \pm 5°C Immersion time: 2 \pm 0.5sec. Solder: SnAgCu (Sn:96.5% Ag:3% Cu:0.5%)	IEC 60384-16 4.5	
11	耐寒性 Cold Resistance	靜電容量化率 Capacitance Change	$\Delta C \leq 5\%$ 以內 Within $\pm 5\%$ Temperature: -40 \pm 2°C Duration: 96 \pm 4 hrs	IEC 60384-16 4.10.4	

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12	焊錫耐熱性 Resistance to Soldering heat	外 觀 Appearance	無明顯異常 No abnormality on appearance	Solder temp: 265 ±5°C Immersion time: 10±0.5sec.	IEC 60384-16 4.4															
		耐電壓 Withstand Voltage	依項目3 Comply with item 3																	
		靜電容量變化率 Capacitance Change	△C ≤ 3%以內 Within ±3%																	
		散逸因數 Dissipation Factor	於項目7範圍以內 Within spec of item 7 above.																	
		絕緣阻抗 Insulation Resistance	Same as the spec of item 5 above																	
13	耐熱性 Dry Heat Resistance	絕緣阻抗 Insulation Resistance	50% of minimum specified value	Temperature: +110 ±2°C Duration: 96±4 hrs	IEC 60384-16 4.10.2															
		靜電容量變化率 Capacitance Change	△C ≤ 5%以內 Within±5%																	
14	溫度循環 Temperature Cycle	外 觀 Appearance	無明顯異常 No abnormality on appearance	Total: 5 cycle <table border="1" style="margin: 0 auto; border-collapse: collapse;"> <thead> <tr> <th>Step</th> <th>Temp</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">-40±2°C</td> <td style="text-align: center;">30 ±1min</td> </tr> <tr> <td style="text-align: center;">2</td> <td style="text-align: center;">+25±2°C</td> <td style="text-align: center;">3min max</td> </tr> <tr> <td style="text-align: center;">3</td> <td style="text-align: center;">+110±2°C</td> <td style="text-align: center;">30 ±1min</td> </tr> <tr> <td style="text-align: center;">4</td> <td style="text-align: center;">+25±2°C</td> <td style="text-align: center;">3min max</td> </tr> </tbody> </table>	Step	Temp	Time	1	-40±2°C	30 ±1min	2	+25±2°C	3min max	3	+110±2°C	30 ±1min	4	+25±2°C	3min max	IEC 60384-16 4.6
		Step	Temp		Time															
		1	-40±2°C		30 ±1min															
		2	+25±2°C		3min max															
3	+110±2°C	30 ±1min																		
4	+25±2°C	3min max																		
耐電壓 Withstand Voltage	依項目3 Comply with item 3																			
絕緣阻抗 Insulation Resistance	50% of minimum specified value																			
散逸因數 Dissipation Factor Change	△DF ≤ 0.3%at 1KHz(20°C)																			
15	穩態濕熱試驗 Damp heat , Steady state	外 觀 Appearance	無明顯異常 No abnormality on appearance 印字可辨識 Marking to be legible	Humidity: 90~95% RH Temperature: +40 ±2°C Duration: 56Days +48/-0hrs Measure after exposing at normal state for 1.5±0.5hrs.	IEC 60384-16 4.11															
		耐電壓 Withstand Voltage	依項目3 Comply with item 3																	
		絕緣阻抗 Insulation Resistance	50% of minimum specified value																	
		靜電容量變化率 Capacitance Change	△C ≤ 5%以內 Within ±5%																	
		散逸因數變化量 Dissipation Factor Change	△DF ≤ 0.1%max at 1KHz(20°C)																	

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16	外 觀 Appearance	無明顯異常 No abnormality on appearance 印字可辨識 Marking to be legible	Temperature: + 85 ±2°C Duration:1,000 +48/-0 hrs Applied Voltage 125% x V _R through series resistor of 20~1000 /V to the Capacitor Measure after exposing at normal state for 4 hrs.	IEC 60384-16 4.12
	耐 電 壓 Withstand Voltage	依項目3 Comply with item 3		
	絕 緣 阻 抗 Insulation Resistance	50% of minimum specified value		
	靜電容量變化率 Capacitance Change	$\Delta C \leq 5\%$ 以內 Within ±5%		
	散逸因數變化量 Dissipation Factor Change	$\Delta DF \leq 0.2\%$ at 10KHz(20°C)		
17	靜電容量變化率 Capacitance Change	$\Delta C / C \leq 5\%$ (relative to the initial value)	Times:10 000 Duration of charging:0.5s Duration of discharging : 0.5s Charging voltage: rated voltage Charging resistance:220/CR() Discharging resistance: R=10/ CR() or 20(whichever is the greater) CR: rated capacitance (μF)	IEC 60384-16 4.13
	散逸因數變化量 Dissipation Factor Change	Increase of: $\Delta DF \leq 0.5\%$ (1KHZ)		
	絕 緣 阻 抗 Insulation Resistance	IR: 50%of rated value		

電容儲存條件:

溫度: +5 ~ +35°C

濕度: ≤ 75% RH

電容儲存時間:

依周期計算有效期: 兩年.(超出兩年產品電氣特性需重新選別及檢查產品外觀)