

## USM Series 金屬化聚酯薄膜電容器(超小型化)P:5mm

### 結構 CONSTRUCTION

USM are non-inductively wound with metallized Polyester film as dielectric/enectrode with copper-clad steel leads with epoxy resin coating. They are suitable for blocking, filtering, by-pass, coupling, decoupling and timing circuits with application in telecommunication, data processing, industrial instruments and automatic control system equipments.

聚酯膜介質，真空蒸金屬電極，經向鍍錫導線點焊于電容器兩端面金屬層，環氧樹脂封裝。

### 特點 FEATURE

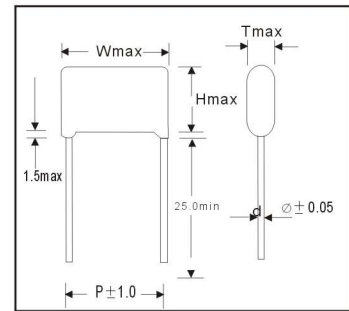
- Small size can be compared favourably with the stack film capacitor.
- Excellent self-healing and high reliability.
- Non-inductive Construction.
- Space saving miniature size.

體積小，可與疊片式電容相比。  
良好自愈及可靠性。  
無感型結構。  
尺寸小，節省空間。

### 技術要求 SPECIFICATIONS

引用標準 Reference Standard	IEC 384-2 GRADE I ; Gb7335	
溫度範圍 Temperature Range	-40°C ~ +85°C (From 85°C up to 105°C with derating voltage 1.25% /°C, 85°C 至 105°C 間按 1.25% /°C 處減電壓)	
靜電容量誤差 Capacitance Tolerance	K = ± 10%	J = ± 5%
散逸因素 (損耗角正切) Dissipation Factor (Tangent of Loss)	≤ 0.80% (at 20°C, 1KHz)	
耐電壓 Voltage Proof	1.6 * UR (1 minute at 20°C)	
絕緣電阻 Insulation Resistance	C ≤ 0.33 μF IR ≥ 9,000 MΩ C > 0.33 μF IR * C ≥ 3,000 ΩF (1 minute at 20°C and RH ≤ 65%)	
耐久性 Endurance	500 hours with 125% of rated voltage at 85°C after the test 85°C 條件下，125% 之額定電壓 500 小時，試驗完成後 ΔC/C ≤ 5% Δ(DF) ≤ 0.20%; C 0.33 F; IR 4500 MΩ; C > 0.33 μF; IR * C ≥ 1500 ΩF (20°C 1KHz)	

### 外型圖 OUTLINE DRAWING



### 用途 APPLICATION

- Blocking coupling of DC and signals to VHF range.
  - Pulse, logic and timing circuit.
  - Light duty pulse forming network.
- 直流減振，耦合及高頻信號。  
脈衝、邏輯及定時回路。  
網路中弱小信號形成。

### 尺寸 (Dimensions)

單位: Unit: mm

容量 CAPACITANCE 符號 SYMBOL	μ F	50/63VDC					100VDC					250VDC					400VDC					630VDC				
		W	H	T	P	dø	W	H	T	P	dø	W	H	T	P	dø	W	H	T	P	dø	W	H	T	P	dø
102	0.0010	7.0	6.5	4.0	5	0.5	7.0	6.5	4.0	5	0.5	7.0	7.5	4.0	5	0.5	7.0	8	5	5	0.5	7.0	8.0	5	5	0.5
152	0.0015	7.0	6.5	4.0	5	0.5	7.0	6.5	4.0	5	0.5	7.0	7.5	4.0	5	0.5	7.0	8	5	5	0.5	7.0	8.0	5	5	0.5
222	0.0022	7.0	6.5	4.0	5	0.5	7.0	6.5	4.0	5	0.5	7.0	7.5	4.0	5	0.5	7.0	8	5	5	0.5	7.0	8.0	5	5	0.5
332	0.0033	7.0	6.5	4.0	5	0.5	7.0	6.5	4.0	5	0.5	7.0	7.5	4.0	5	0.5	7.0	8	5	5	0.5	7.0	8.0	6	5	0.5
472	0.0047	7.0	6.5	4.0	5	0.5	7.0	6.5	4.0	5	0.5	7.0	7.5	4.0	5	0.5	7.0	8	5	5	0.5	7.0	9	6	5	0.5
682	0.0068	7.0	6.5	4.0	5	0.5	7.0	6.5	4.0	5	0.5	7.0	7.5	4.0	5	0.5	7.0	8	5.5	5	0.5	7.0	10	6	5	0.5
103	0.010	7.0	6.5	4.0	5	0.5	7.0	6.5	4.0	5	0.5	7.0	7.5	4.0	5	0.5	7.0	8	5.5	5	0.5	7.0	10	7	5	0.5
153	0.015	7.0	6.5	4.0	5	0.5	7.0	6.5	4.0	5	0.5	7.0	8.0	4.0	5	0.5	7.0	9	5.5	5	0.5	7.0	12	7	5	0.5
223	0.022	7.0	6.5	4.0	5	0.5	7.0	6.5	4.0	5	0.5	7.0	8.0	4.0	5	0.5	7.0	10	5.5	5	0.5					
333	0.033	7.0	6.5	4.0	5	0.5	7.0	6.5	4.0	5	0.5	7.0	8.5	4.5	5	0.5	7.0	10	5.5	5	0.5					
473	0.047	7.0	6.5	4.0	5	0.5	7.0	6.5	4.0	5	0.5	7.0	9.0	5	5	0.5	7.0	11	6.0	5	0.5					
683	0.068	7.0	6.5	4.0	5	0.5	7.0	6.5	4.0	5	0.5	7.0	10	5.5	5	0.5	7.0	12	6.5	5	0.5					
104	0.10	7.0	6.5	4.0	5	0.5	7.0	6.5	4.0	5	0.5	7.0	10	6.5	5	0.5	7.0	13	6.5	5	0.5					
154	0.15	7.0	7.0	4.0	5	0.5	7.0	7.5	4.0	5	0.5	7.0	11	7.0	5	0.5										
224	0.22	7.0	7.5	4.0	5	0.5	7.0	8.0	4.5	5	0.5	7.0	12	7.0	5	0.5										
334	0.33	7.0	7.5	4.5	5	0.5	7.0	9.0	4.5	5	0.5															
474	0.47	7.0	9.0	5.0	5	0.5	7.0	9.0	5.0	5	0.5															
684	0.68	7.0	9.0	5.5	5	0.5	7.0	10	5.5	5	0.5															
105	1.00	7.0	9.0	6.0	5	0.5	7.0	11	6.0	5	0.5															
155	1.50	7.0	10	6.0	5	0.5																				
225	2.20	7.0	12	6.5	5	0.5																				

可依需求制作特殊規格 (SPECIAL SIZE OR ITEMS ON REQUEST)