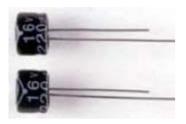
## 5mm 85°C MCUMR Series





#### Features:

- Developed short body length to 5 m/m, for the demand of smaller and thinner electronic equipment
- Most suitable for high-density electronic equipment, such as: automatic office machines, pocket calculators, car stereos and mini-audio sets, VCR, camera, CD-ROM, notebook

### **Specifications:**

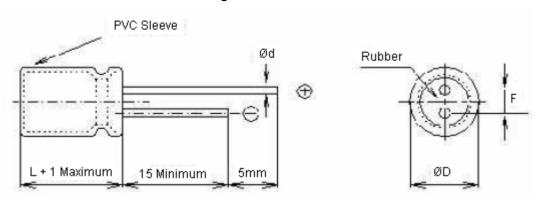
Item	Performance								
Operating temperature range	-40°C to +85°C								
Rated working voltage range	4 to 50 V dc								
Nominal capacitance range	0.1 to 470 μF								
Capacitance tolerance	±20% (at +20°C,120 Hz)								
Leakage current	I = 0.01CV or 3(μA) after two minutes								
Dissipation factor (tan $\delta$ ) (120 Hz \+20°C)	Working voltage (V)	4	6.3	10	16	25	35	50	
	Maximum tan δ	0.35	0.24	0.2	0.16	0.14	0.12	0.1	
Characteristics at high and law	Working voltage (V)	4	6.3	10	16	25	35	50	
Characteristics at high and low temperature (stability at 120 Hz)	-25°C /+20°C	7	4	3	2	2	2	2	
	-40°C /+20°C	15	8	6	4	4	3	3	
High temperature loading	After 1,000 hours application of DC rated working voltage at +85°C, The capacitor shall meet the following limits: Post test requirements at +20°C  Leakage current £ the initial specified value  Capacitance change £ ±20% of initial measured value  Dissipation factor (tan δ) £ 200% of initial specified value								
Shelf life	After storage for 500 hours at +85°C with no voltage applied Post test requirements at +20°C same limits as high temperature loading								
Solvent proof	This capacitor can withstand circuit-board cleaning within 5 minutes dipped in Freon TE, TES at 40°C (ultrasonic also permitted) or in the steam of these cleaners								



# 5mm 85°C MCUMR Series



### **Diagram of Dimensions**



Dimensions : Millimetres

ØD (+0.5 Maximum)	3	4	5	6.3	8
F (±0.5)	1	1.5	2	2.5	3.5
Ød (±0.02)	0.4	0.45	0.45	0.45	0.5

#### 

W.V. (SV)	4	6.3	10	16	25	35	50
μF	(5)	(8)	(13)	(20)	(32)	(44)	(63)
0.1	-	-	-	-	-		4 × 5 (3 ×5)
0.22	-	-	-	-	-		
0.33	-	-	-	-	-	R	
0.47	-	-	-	-	-	K	
1.0	-	-	-	-	-		
2.2	-	-	-	-	-		
3.3	-	-	-	-	R	4 × 5 (3 × 5)	4 × 5
4.7	-	-	-	R	4 × 5 (3 ×5)	4 × 5	5 × 5
10	-	-	R	4 × 5 (3 × 5)	4 × 5	5 × 5	6.3 × 5
22	R	4 × 5 (3 × 5)	4 × 5	4 × 5	5 × 5	6.3 × 5	8 × 5
33	4 × 5 (3 ×5)	4 × 5		5 × 5	6.3 × 5	8 × 5	-
47		4 ^ 5	5 × 5	6.3 × 5	0.3 ^ 3	0 ^ 0	-
100	R	5 × 5	6.3 × 5	0.5 ^ 5	8 × 5	-	-
220		6.3 × 5	8 × 5	8 × 5	-	-	-
330		8 × 5	-	-	-	-	-
470	8 × 5	-	-	-	-	-	-

3 x 5 = UM3R Series

All blank voltage on sleeve marking is the same voltage as "R" point to

