

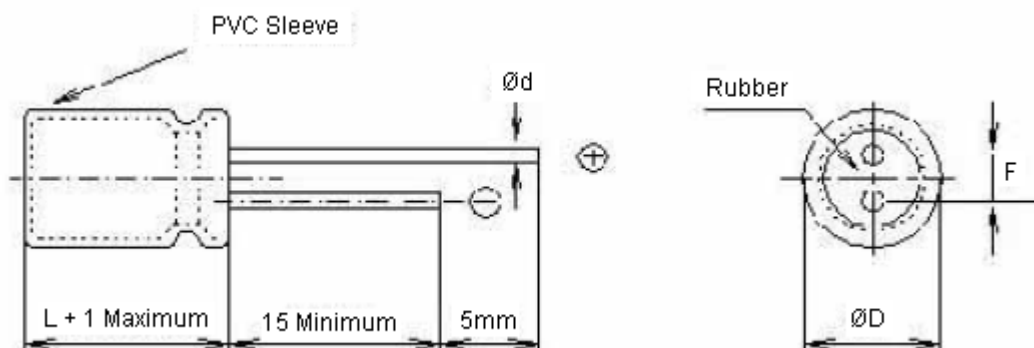
Features:

- 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 δ) (120 Hz \+20°C)	<table><tr><td>Working voltage (V)</td><td>4</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><tr><td>Maximum tan δ</td><td>0.35</td><td>0.24</td><td>0.2</td><td>0.16</td><td>0.14</td><td>0.12</td><td>0.1</td></tr></table>	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								
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Characteristics at high and low temperature (stability at 120 Hz)	<table><tr><td>Working voltage (V)</td><td>4</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><tr><td>-25°C /+20°C</td><td>7</td><td>4</td><td>3</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>-40°C /+20°C</td><td>15</td><td>8</td><td>6</td><td>4</td><td>4</td><td>3</td><td>3</td></tr></table>	Working voltage (V)	4	6.3	10	16	25	35	50	-25°C /+20°C	7	4	3	2	2	2	2	-40°C /+20°C	15	8	6	4	4	3	3
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-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 <table><tr><td>Leakage current</td><td>£ the initial specified value</td></tr><tr><td>Capacitance change</td><td>£ ±20% of initial measured value</td></tr><tr><td>Dissipation factor (tan δ)</td><td>£ 200% of initial specified value</td></tr></table>	Leakage current	£ the initial specified value	Capacitance change	£ ±20% of initial measured value	Dissipation factor (tan δ)	£ 200% of initial specified value																		
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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																								

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

Case Size Table

ØD x L (mm)

W.V. (SV) μF	4 (5)	6.3 (8)	10 (13)	16 (20)	25 (32)	35 (44)	50 (63)	
0.1	-	-	-	-	-	R	4 × 5 (3 ×5)	
0.22	-	-	-	-	-			
0.33	-	-	-	-	-			
0.47	-	-	-	-	-			
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	R		5 × 5	6.3 × 5			-	
100		5 × 5	6.3 × 5	8 × 5	-	-		
220		6.3 × 5	8 × 5	8 × 5	-	-	-	
330		8 × 5	-	-	-	-	-	-
470		8 × 5	-	-	-	-	-	-

3 × 5 = UM3R Series

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

5mm 85°C MCUMR Series



Part Number Table

Description	Part Number
CAPACITOR, 22 μ F, 6.3 V	MCUMR6V3226M4X5
CAPACITOR, 33 μ F, 6.3 V	MCUMR6V3336M4X5
CAPACITOR, 47 μ F, 6.3 V	MCUMR6V3476M4X5
CAPACITOR, 100 μ F, 6.3 V	MCUMR6V3107M5X5
CAPACITOR, 220 μ F, 6.3 V	MCUMR6V3227M6.3X5
CAPACITOR, 330 μ F, 6.3 V	MCUMR6V3337M8X5
CAPACITOR, 22 μ F, 10 V	MCUMR10V226M4X5
CAPACITOR, 33 μ F, 10 V	MCUMR10V336M4X5
CAPACITOR, 47 μ F, 10 V	MCUMR10V476M5X5
CAPACITOR, 100 μ F, 10 V	MCUMR10V107M6.3X5
CAPACITOR, 220 μ F, 10 V	MCUMR10V227M8X5
CAPACITOR, 10 μ F, 16 V	MCUMR16V106M4X5
CAPACITOR, 22 μ F, 16 V	MCUMR16V226M4X5
CAPACITOR, 33 μ F, 16 V	MCUMR16V336M5X5
CAPACITOR, 47 μ F, 16 V	MCUMR16V476M6.3X5
CAPACITOR, 100 μ F, 16 V	MCUMR16V107M6.3X5
CAPACITOR, 220 μ F, 16 V	MCUMR16V227M8X5
CAPACITOR, 4.7 μ F, 25 V	MCUMR25V475M4X5
CAPACITOR, 10 μ F, 25 V	MCUMR25V106M4X5
CAPACITOR, 22 μ F, 25 V	MCUMR25V226M5X5
CAPACITOR, 33 μ F, 25 V	MCUMR25V336M6.3X5
CAPACITOR, 47 μ F, 25 V	MCUMR25V476M6.3X5
CAPACITOR, 100 μ F, 25 V	MCUMR25V107M8X5
CAPACITOR, 3.3 μ F, 35 V	MCUMR35V335M4X5
CAPACITOR, 4.7 μ F, 35 V	MCUMR35V475M4X5
CAPACITOR, 10 μ F, 35 V	MCUMR35V106M5X5
CAPACITOR, 22 μ F, 35 V	MCUMR35V226M6.3X5
CAPACITOR, 33 μ F, 35 V	MCUMR35V336M8X5
CAPACITOR, 47 μ F, 35 V	MCUMR35V476M8X5
CAPACITOR, 0.1 μ F, 50 V	MCUMR50V104M4X5

CAPACITOR, 0.22 μ F, 50 V	MCUMR50V224M4X5
CAPACITOR, 0.33 μ F, 50 V	MCUMR50V334M4X5
CAPACITOR, 0.47 μ F, 50 V	MCUMR50V474M4X5
CAPACITOR, 1 μ F, 50 V	MCUMR50V105M4X5
CAPACITOR, 2.2 μ F, 50 V	MCUMR50V225M4X5
CAPACITOR, 3.3 μ F, 50 V	MCUMR50V335M4X5
CAPACITOR, 4.7 μ F, 50 V	MCUMR50V475M5X5
CAPACITOR, 10 μ F, 50 V	MCUMR50V106M6.3X5
CAPACITOR, 22 μ F, 50 V	MCUMR50V226M8X5

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