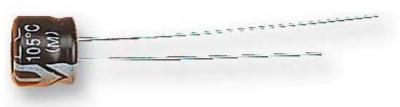
# Ultra Miniature Radial Capacitors MCUMHR Series



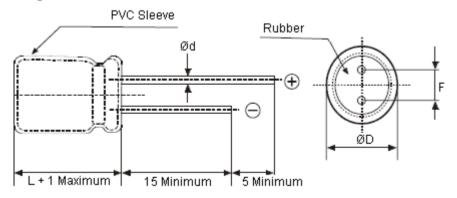
### Features:

- Ultra miniature radial electrolytic capacitors, Short body length to 5 mm for the demand of smaller and thinner electronic equipment
- Suitable for high-density electronic equipment, such as: Automatic office machines, pocket calculators, car stereos and mini-audio sets, VCR, camera, CD-ROM, notebook etc

# **Specification Table:**

Parameter	Performance					
Operating Temperature Range	-40°C to +105°C					
Rated Working Voltage Range	6.3 to 50 V dc					
Nominal Capacitance Range	1 to 100 μF					
Capacitance Tolerance	±20% (at +20°C, 120 Hz)					
DC Leakage Current	I = 0.01 CV or 3 μA after two minutes					
Dissipation Factor (tanδ)	Working voltage (V)	6.3	16 35		50	
(120 Hz / +20°C)	tanδ (maximum)	0.24	0.16 0.12		0.1	
Characteristics at Low Temperature (Stability at 120 Hz)	Working voltage (V)	6.3	16	35	50	
	-25°C / +20°C	4	2	2	2	
	-40°C / +20°C	8	4	3	3	
	After 1,000 hours application of DC rated working voltage at +105°C The capacitor shall meet the following limits: Post test requirements at +20°C					
High Temperature Loading	Leakage current	≤the initial specified value				
	Capacitance change	≤±20% of initial measured value				
	Dissipation factor (tanδ) ≤200% of initial specified value					
Shelf Life	After storage for 500 hours at +105°C with no voltage applied Post test requirements at +20°C. Same limits for high temperature loading					
Solvent Proof	This capacitor can withstand circuit-board cleaning of 5 minutes dipped in Freon TE, TES, at 40°C (ultrasonic also permitted) or in the steam of these cleaners					

## **Diagram of Dimensions**



DØ (+0.5 Maximum)	4	5	6.3	
F (±0.5)	1.5	2	2.5	
dØ (±0.02)	0.45	0.45	0.45	

Dimensions : Millimetres

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## Case Size Table ØDiameter × Height

WV (SV) μF	6.3 (8)	16 (20)	35 (44)	50 (63)
1	-	-	-	4 × 5
2.2	-	-	-	4 × 5
4.7	-	-	4 × 5	5 × 5
10	-	-	5 × 5	-
22	-	-	6.3 × 5	-
47	-	6.3 × 5	-	-
100	5 × 5	-		

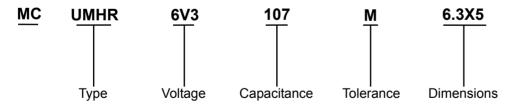
Dimensions : Millimetres

## **Specification Table**

Capacitance (μF)	Voltage (V dc)	Ripple Current at 120 Hz, 105°C (mA)	Height	Diameter	Lead Diameter	Lead Pitch	Part Number
100	6.3	60	5	5	0.45	2	MCUMHR6V3107M6.3X5
47	16	50		6.3		2.5	MCUMHR16V476M6.3X5
4.7		15		4		1.5	MCUMHR35V475M4X5
10	35	25		5		2	MCUMHR35V106M5X5
22		42		6.3		2.5	MCUMHR35V226M6.3X5
1	50	6.2		4		1.5	MCUMHR50V105M4X5
2.2		11		4			MCUMHR50V225M4X5

Dimensions : Millimetres

## Part Number Explanation:



Voltage (V dc) : 6V3 = 6.3 V dc, 16V = 16 V dc, 35 = 35 V dc and 50 = 50 V dc

Capacitance code (µF) : First two digits are the base value and last digit which denotes the number of zeros at the end of the

value Eg :  $107 = 100,000,000 \mu F$ 

Eg :  $476 = 47,000,000 \mu F$ 

Tolerance :  $M = \pm 20\%$ 

Dimensions : Diameter × Height

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