Ultra Miniature Radial Capacitors MCUMHR Series





RoHS Compliant

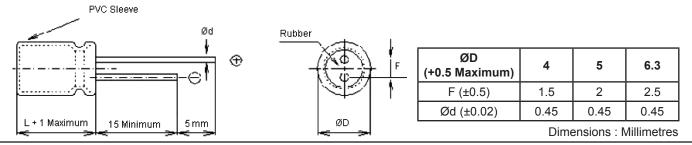
Features

- Ultra miniature radial electrolytic capacitors, Short body length to 5mm 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

Specifications

Item	Performance						
Operating temperature range	-40°C to +85°C						
Rated working voltage range	6.3V DC to 50V DC						
Nominal capacitance range	1μF to 100μF						
Capacitance tolerance	±20% (at +20°C, 120 Hz)						
Leakage current	I = 0.01 CV or 3 (μA) after two minutes						
Dissipation factor (tan δ) (120Hz / +20°C)	Working voltage (V)	6.3	16	35	50]	
	Maximum tan δ	0.24	0.16	0.12	0.1		
Characteristics at Low Temperature (stability at 120Hz)	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 +85°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				е	
	Dissipation factor (tan δ) ≤ 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



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Case Size Table

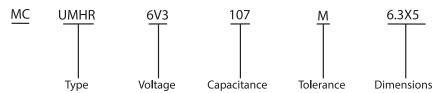
W.V. (SV)	6.3 (8)	16 (20)	35 (44)	50 (63)
1	-	-	1	4 × 5
2.2	-	-	-	4 × 5
4.7	-	-	4 × 5	5 × 5
10	-	-	5 × 5	-
22	-	-	6.3 × 5	-
47	-	6.3 × 5	-	-
100	5 × 5	-	-	-

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

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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