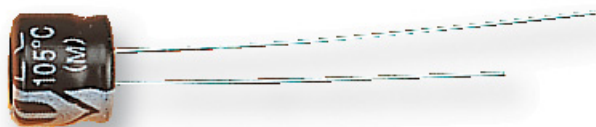


MCUMHR Series

Ultra Miniature Radial Capacitors



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

Parameter	Performance				
Operating Temperature Range	-40°C to +105°C				
Rated Working Voltage Range	6.3 to 50V dc				
Nominal Capacitance Range	1.0 to 100μF				
Capacitance Tolerance	±20% (at +20°C, 120Hz)				
DC Leakage Current	I = 0.01CV or 3μA after two minutes				
Dissipation Factor (tanδ) (120Hz/+20°C)	Working voltage (V)	6.3	16	35	50
	tanδ (maximum)	0.24	0.16	0.12	0.10
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
High Temperature Loading	After 1000 hours application of DC rated working voltage at +105°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 (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.				

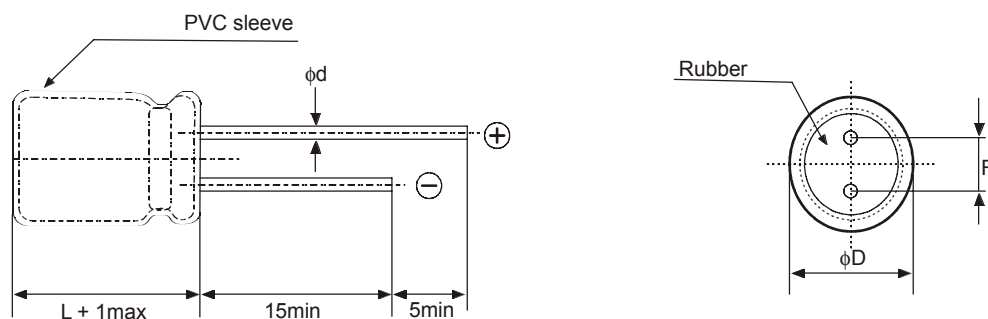


MCUMHR Series

Ultra Miniature Radial Capacitors



Diagram of Dimensions



Dϕ (+0.5 Maximum)	4	5	6.3
F (±0.5)	1.5	2.0	2.5
dϕ (±0.02)	0.45	0.45	0.45

Dimensions : Millimetres

Case Size Table

ϕDiameter x 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



MCUMHR Series

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Specification Table

Voltage (V dc)	Capacitance (μF)	Ripple Current at 120Hz, 105°C (mA)	Height	Diameter	Lead Diameter	Lead Pitch	Part Number
6.3	100	60	5	5	0.45	2	UMHR6V3107M6.3X5
16	47	50		6.3		2.5	UMHR16V476M6.3X5
35	4.7	15		4.0		1.5	UMHR35V475M4X5
	10	25		5.0		2.0	UMHR35V106M5X5
	22	42		6.3		2.5	UMHR35V226M6.3X5
50	1.0	6.2		4.0		1.5	UMHR50V105M4X5
	2.2	11					UMHR50V225M4X5
	4.7	19				5.0	2.0

Dimensions : Millimetres

Part Number Explanation:

UMHR

Type

6V3

Voltage

225

Capacitance

M

Tolerance

4X5

Dimensions

Voltage (V dc)

: 6V3 = 6.3V dc, 16V = 16V dc, 35 = 35V dc and 50 = 50V 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: 225 = 2,200,000μF.

Eg: 226 = 22,000,000μF.

Tolerance

: M = ±20%.

Dimensions

: Diameter x Height.

MCUMHR Series

Ultra Miniature Radial Capacitors



Notes:

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