



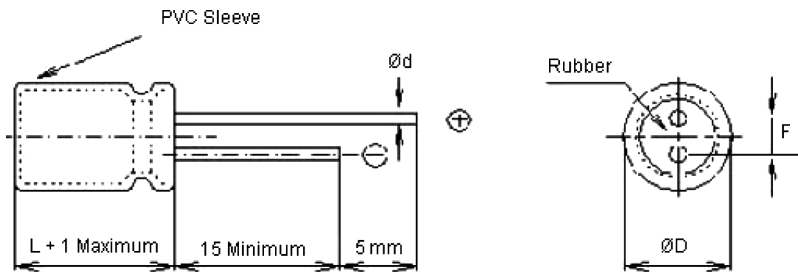
## Features

- Developed short body length to 5mm, 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	4V DC to 50V DC									
Nominal capacitance range	0.1µF to 470µF									
Capacitance tolerance	±20% (at +20°C, 120 Hz)									
Leakage current	I = 0.01 CV or 3 (µA) after two minutes									
Dissipation factor (tan δ) (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 low temperature (stability at 120 Hz)	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		
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									

## Diagram of Dimensions



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

Dimensions : Millimetres

## Case Size Table ØD × 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			8 × 5
100		6.3 × 5	8 × 5	8 × 5	-	-	
220		8 × 5	-	-	-	-	-
330		-	-	-	-	-	-
470		8 × 5	-	-	-	-	-

3 × 5 = UM3R Series

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

## Rated Ripple Current

VDC	4		6.3		10		16		25		35		50		63		100			
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple		
CAP (uF)																				
0.47													4x5.0	4.0						
1													4x5.0	8.4						
2.2													4x5.0	14						
3.3													4x5.0	17						
4.7									4x5.0	18	4x5.0	18	4x5.0	18						
									5x5.0	22			5x5.0	22						
10								4x5.0	25	4x5.0	25	5x5.0	30	5x5.0	30			8x10.5	90	
													6.3x5.0	35						
22			4x5.0	29			4x5.0	30					6.3x5.0	48	6.3x5.0	48	8x10.5	75	8x10.5	130
							5x5.0	39					8x6.5	80						
33	4x5.0	28			4x5.0	32	5x5.0	43	5x5.0	43	6.3x5.0	54	6.3x5.0	58	6.3x8	95	8x10.5	160	10x10.5	170
													8x10.5	200						
47	4x5.5	34	4x5.0	36			5x5.0	50	6.3x5.0	58	6.3x5.0	60	6.3x8	105	8x10.5	240	8x10.5	170	12.5x13.5	250
			5x5.0	46			6.3x5.0	58					8x6.5	115	10x10.5	280				
100	5x5.0	61	5x5.0	61	6.3x5.0	71	6.3x5.0	86	6.3x8	145	8x10.5	280	8x10.5	320	10x10.5	500	10x10.5	240	12.5x16	440
			6.3x5.0	71			8x6.5	135	8x6.5	160	10x10.5	480	10x10.5	500						
220	6.3x5.0	96	6.3x5.0	96	6.3x8	175	6.3x8	165	8x10.5	300	8x10.5	300	10x10.5	570	12.5x13.5	580	12.5x16	580	16x21.5	665
					8x6.5	1909	8x10.5	290	10x10.5	560									18x16.5	665
330			6.3x8	190	8x10.5	330	8x10.5	330	10x10.5	680	10x10.5	680			12.5x13.5	600	18x16.5	680	18x21.5	825
			8x6.5	210	10x10.5	670														
470	6.3x8	200	8x10.5	380	8x10.5	380	8x10.5	385	12.5x13.5	700	12.5x13.5	700	16x16.5	740	16x21.5	850	18x16.5	850		
			10x10.5	680	10x10.5	690	10x10.5	690							18x16.5	850				

### Size DIAxL(mm), Rated Ripple Current (mA r.m.s./85°C, 120Hz)

(Example: for MCUMR16V476M6.3X5 Maximum Permissible Ripple Current : 58mA(rms) at 120Hz, 85 C°)

## Part Number Table

Description	Part Number	Description	Part Number
Capacitor, 22µF, 6.3V	MCUMR6V3226M4X5	Capacitor, 33µF, 25V	MCUMR25V336M6.3X5
Capacitor, 33µF, 6.3V	MCUMR6V3336M4X5	Capacitor, 47µF, 25V	MCUMR25V476M6.3X5
Capacitor, 47µF, 6.3V	MCUMR6V3476M4X5	Capacitor, 100µF, 25V	MCUMR25V107M8X5
Capacitor, 100µF, 6.3V	MCUMR6V3107M5X5	Capacitor, 3.3µF, 35V	MCUMR35V335M4X5
Capacitor, 220µF, 6.3V	MCUMR6V3227M6.3X5	Capacitor, 4.7µF, 35V	MCUMR35V475M4X5
Capacitor, 330µF, 6.3V	MCUMR6V3337M8X5	Capacitor, 10µF, 35V	MCUMR35V106M5X5
Capacitor, 22µF, 10V	MCUMR10V226M4X5	Capacitor, 22µF, 35V	MCUMR35V226M6.3X5
Capacitor, 33µF, 10V	MCUMR10V336M4X5	Capacitor, 33µF, 35V	MCUMR35V336M8X5
Capacitor, 47µF, 10V	MCUMR10V476M5X5	Capacitor, 47µF, 35V	MCUMR35V476M8X5
Capacitor, 100µF, 10V	MCUMR10V107M6.3X5	Capacitor, 0.1µF, 50V	MCUMR50V104M4X5
Capacitor, 220µF, 10V	MCUMR10V227M8X5	Capacitor, 0.22µF, 50V	MCUMR50V224M4X5
Capacitor, 10µF, 16V	MCUMR16V106M4X5	Capacitor, 0.33µF, 50V	MCUMR50V334M4X5
Capacitor, 22µF, 16V	MCUMR16V226M4X5	Capacitor, 0.47µF, 50V	MCUMR50V474M4X5
Capacitor, 33µF, 16V	MCUMR16V336M5X5	Capacitor, 1µF, 50V	MCUMR50V105M4X5
Capacitor, 47µF, 16V	MCUMR16V476M6.3X5	Capacitor, 2.2µF, 50V	MCUMR50V225M4X5
Capacitor, 100µF, 16V	MCUMR16V107M6.3X5	Capacitor, 3.3µF, 50V	MCUMR50V335M4X5
Capacitor, 220µF, 16V	MCUMR16V227M8X5	Capacitor, 4.7µF, 50V	MCUMR50V475M5X5
Capacitor, 4.7µF, 25V	MCUMR25V475M4X5	Capacitor, 10µF, 50V	MCUMR50V106M6.3X5
Capacitor, 10µF, 25V	MCUMR25V106M4X5	Capacitor, 22µF, 50V	MCUMR50V226M8X5
Capacitor, 22µF, 25V	MCUMR25V226M5X5		

**Important Notice :** This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.