



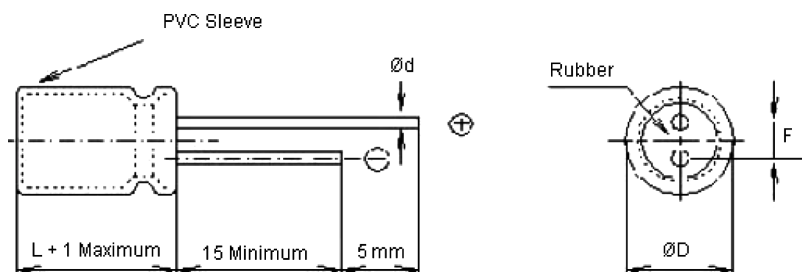
Features

- 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



$\varnothing D$ (+0.5 Maximum)	3	4	5	6.3	8
F (± 0.5)	1	1.5	2	2.5	3.5
$\varnothing d$ (± 0.02)	0.4	0.45	0.45	0.45	0.5

Dimensions : Millimetres

Case Size Table

$\varnothing D \times L$ (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	-			
100		6.3 × 5	8 × 5	-			
220		8 × 5	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								
10							4x5.0	25	4x5.0	25	5x5.0	30	5x5.0	30			8x10.5	90
							5x5.0	39			6.3x5.0	48	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	43			8x6.5	80	8x6.5	80				
33	4x5.0	28			4x5.0	32	5x5.0	43	6.3x5.0	54	6.3x5.0	58	6.3x8	95	8x10.5	160	10x10.5	170
											8x10.5	200	8x10.5	200				
47	4x55	34	4x5.0	36			5x5.0	50	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	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	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			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		
					10x10.5	680	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		

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