

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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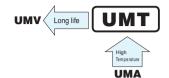


5mmL, Wide Temperature Range



- ●Wide temperature range of -55 to +105°C, with 5mm height.
- Compliant to the RoHS directive (2011/65/EU).

Values marked with an * in the dimension table are scheduled to be discontinued and are not recommended for new designs.

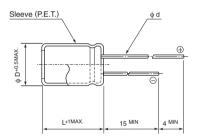


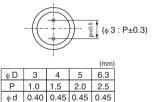


■Specifications

Item	Performance Characteristics											
Category Temperature Range	−55 to +105°C											
Voltage Range	4 to 50V 0.1 to 100μF											
Rated Capacitance Range												
Rated Capacitance Tolerance	±20% at 120Hz, 20°C											
Leakage Current	After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.01CV or 3 (µA), whichever is great								ver is greater.			
	Measurement frequency : 120Hz at 20°C											
Tangent of loss angle (tan δ)	Rated voltage (V)	4	6.3		10	16	25		35	50	Figures in () are for
	tan δ (MAX.)	0.37	0.28		0.24	0.20	0.16	0.13	(0.14)	0.12 (0.14)	φ 3 product.	
	Measurement frequency: 120Hz											
Chability at Law Tarrananahara	Rated v	oltage (V)		4	6.3	10	16	25	35	50		
Stability at Low Temperature	Impedance ratio	Z-25°C / Z+	+20°C	6		3	2	2	2	2		
	ZT / Z20 (MAX.)	Z-40°C / Z+	+20°C	12	8	5	4	3	3	3		
Fadimens	The specifications I when the capacitors	Capacitan	ce change	Within $\pm 25\%$ of the initial capacitance value (ϕ 3mm unit,and \leq 16V) Within $\pm 20\%$ of the initial capacitance value (\geq 25V)								
Endurance	after the rated voltage is applied for 1000				tan δ		200% or less than the initial specified value					
	hours at 105°C.	Leakage current Less than or equal to the initial specified value										
Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed above.							5101-4				
Marking	Printed with white co											

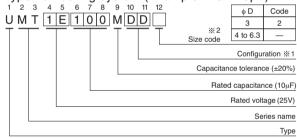
■ Radial Lead Type





• Please refer to page 20 about the end seal configuration.

Type numbering system (Example : 25V $10\mu F$)



%1 Configuration

φD	Pb-free leadwire Pb-free PET sleeve
3	CD
4 to 6.3	DD

 $\ensuremath{\%2}$ For ϕ 3mm unit, place size code of 2 to 12th digit.

■ Dimensions

	V	4		6.3		10		16		25		35		50	1
Cap.(µF) Code		0G		0J		1A		1C		1E		1V		1H	
0.1	0R1													* • 4×5	1.0(1.0)
0.22	R22		i i				i						i	* • 4×5	2.6(2.6)
0.33	R33						l I				-		i i	* • 4×5	3.2(3.2)
0.47	R47		1										1	* • 4×5	3.8(3.8)
1	010		į				i						i	•4×5	6.2(5.9)
2.2	2R2		! !				!				!	3 × 5	7.5	• 4×5	11 (9)
3.3	3R3											• 4 × 5	11 (9)	4×5	14
4.7	4R7		İ							• 4×5	13 (10)	4 × 5	15	5×5	19
10	100		!				 	• 4×5	18 (14)	5×5	23	5×5	25	6.3×5	30
22	220	4×5	22	4×5	22	5×5	27	5×5	30	6.3×5	38	6.3×5	48		
33	330	5×5	30	5×5	30	5×5	35	6.3×5	40	6.3×5	48		i I		
47	470	5×5	36	5×5	36	6.3×5	46	6.3×5	50				1	Case size	Rated
100	101	6.3×5	60	6.3 × 5	60								i	φD×L (mm)	ripple

Size \$3 × 5 is available for capacitors marked "●"

Figures in () are for φ 3 product.

Rated ripple current (mArms) at 105°C 120Hz

Frequency coefficient of rated ripple current

Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more	
Coefficient	0.70	1.00	1.17	1.36	1.50	

Please refer to page 20, 21, 22 about the formed or taped product spec. Please refer to page 4 for the minimum order quantity.