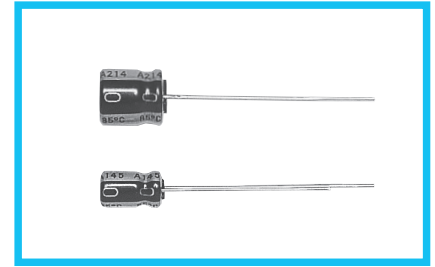


**USW** 7mmL, For Audio Equipment

- Acoustic series, with 7mm height.
- Compliant to the RoHS directive (2011/65/EU).

**USW**

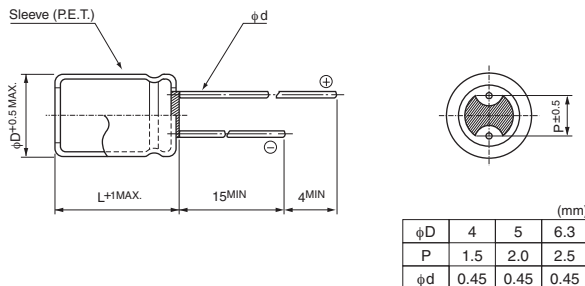
Smaller

**UMW**

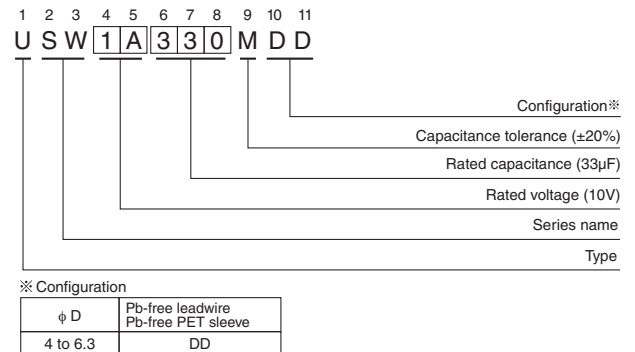
## Specifications

Item	Performance Characteristics									
Category Temperature Range	−40 to +85°C									
Rated Voltage Range	6.3 to 50V									
Rated Capacitance Range	1 to 220μF									
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 greater.									
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz at 20°C									
	Rated voltage (V)	6.3	10	16	25	35	50			
	tan δ (MAX.)	0.24	0.20	0.16	0.14	0.12	0.10			
Stability at Low Temperature	Measurement frequency : 120Hz									
	Rated voltage (V)		6.3	10	16	25	35	50		
	Impedance ratio	Z−25°C / Z+20°C	4	3	2	2	2	2		
	ZT / Z20 (MAX.)	Z−40°C / Z+20°C	8	6	4	4	3	3		
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 1000 hours at 85°C.						Capacitance change		Within ±20% of the initial capacitance value	
							tan δ		200% or less than the initial specified value	
							Leakage current		Less than or equal to the initial specified value	
Shelf Life	After storing the capacitors under no load at 85°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.									
Marking	Printed with black color letter on gold sleeve.									

## Radial Lead Type



## Type numbering system (Example : 10V 33μF)



## Dimensions

V		6.3	10	16	25	35	50
Cap. (μF)	Code	0J	1A	1C	1E	1V	1H
1	010						4 × 7 10
2.2	2R2						4 × 7 19
3.3	3R3						4 × 7 24
4.7	4R7					4 × 7 24	4 × 7 28
10	100			4 × 7 28	4 × 7 28	4 × 7 31	5 × 7 38
22	220	4 × 7 34	4 × 7 35	4 × 7 39	5 × 7 48	5 × 7 52	6.3 × 7 58
33	330	4 × 7 40	4 × 7 43	5 × 7 55	5 × 7 58	6.3 × 7 65	
47	470	4 × 7 48	5 × 7 59	5 × 7 65	6.3 × 7 71		
100	101	5 × 7 78	6.3 × 7 87	6.3 × 7 98			
220	221	6.3 × 7 120					Case size φ D × L (mm)

## Frequency coefficient of rated ripple current

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

Rated ripple current (mA rms) at 85°C 120Hz

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