

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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# **USW**

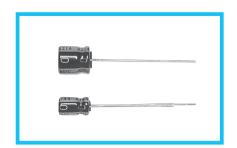
7mmL, For Audio Equipment



- Acoustic series, with 7mm 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.

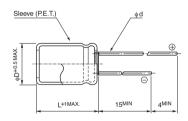




#### ■ Specifications

Item	Performance Characteristics									
Category Temperature Range	-40 to +85°C									
Rated Voltage Range	6.3 to 50V									
Rated Capacitance Range	0.1 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.									
	Measurement frequency : 120Hz at 20°C								:	
Tangent of loss angle (tan $\delta$ )	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		
	Measurement frequency : 120Hz									
	Rated voltage (V)		6.3	10 10		25	35	50		
Stability at Low Temperature	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		
	The enecifications li	istad at right shal	l ho mot							
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			Capacitance change		Within ±20% of the initial capacitance value				
				tan δ		200% or less than the initial specified value				
	85°C.  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.									

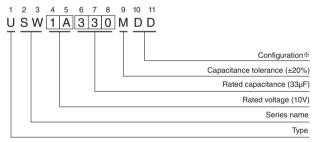
### ■ Radial Lead Type





			(mm)
φD	4	5	6.3
Р	1.5	2.0	2.5
φd	0.45	0.45	0.45

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



 φ D
 Pb-free leadwire Pb-free PET sleeve

 4 to 6.3
 DD

#### Dimensions

	V	6.3		10		16		25		35		50	
Cap.(µF)	Code	0J		1A		1C		1E		1V		1H	
0.1	0R1											<b>%4×7</b>	1.0
0.22	R22		i				i		i		i	<b>※4×7</b>	2.3
0.33	R33		1				1		1		1	<b>※</b> 4×7	3.5
0.47	R47											<b>※4×7</b>	5.0
1	010						i				i	4 × 7	10
2.2	2R2		-						1		1	4 × 7	19
3.3	3R3						-				1	4 × 7	24
4.7	4R7						i			4 × 7	24	4 × 7	28
10	100		İ		İ	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		1
47	470	4×7	48	5×7	59	5 × 7	65	6.3 × 7	71		l l		1
100	101	5×7	78	6.3 × 7	87	6.3 × 7	98		1		-	Case size	Rated
220	221	6.3 × 7	120				i				1	φD×L (mm)	Rated

#### • 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 (mArms) at 85°C 120Hz