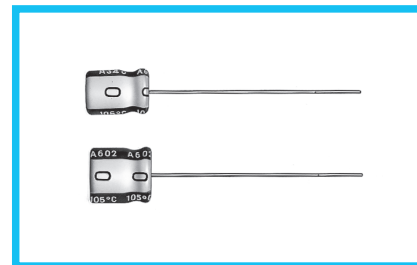


USV

7mmL, Long Life Assurance



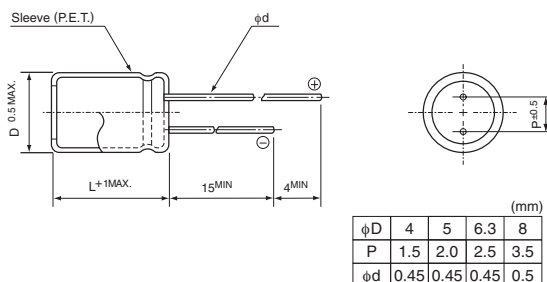
- Extended load life of 5000 hours at +105°C, with 7mm height.
- Compliant to the RoHS directive (2011/65/EU, (EU)2015/863).



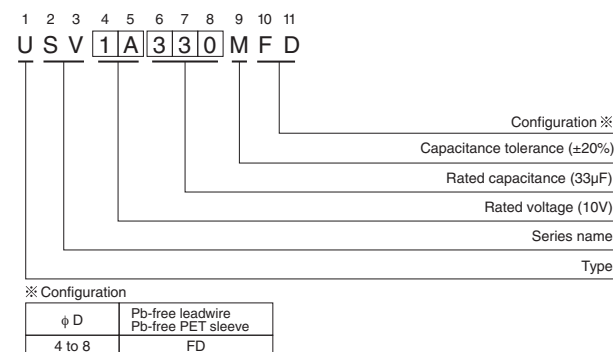
Specifications

Item	Performance Characteristics												
Category Temperature Range	-40 to +105°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, Temperature : 20°C												
	Rated voltage (V)	6.3	10	16	25	35	50						
	tan δ (MAX.)	0.24	0.21	0.18	0.15	0.13	0.12						
Stability at Low Temperature	Measurement frequency : 120Hz												
	Rated voltage (V)		6.3	10	16	25	35	50					
	Impedance ratio (MAX.)	Z-25°C / Z+20°C	4	3	2	2	2	2					
Z-40°C / Z+20°C		8	6	4	3	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 5000 hours at 105°C.				<table><tr><td>Capacitance change</td><td>Within ±30% of the initial capacitance value</td></tr><tr><td>tan δ</td><td>300% or less than the initial specified value</td></tr><tr><td>Leakage current</td><td>Less than or equal to the initial specified value</td></tr></table>			Capacitance change	Within ±30% of the initial capacitance value	tan δ	300% or less than the initial specified value	Leakage current	Less than or equal to the initial specified value
Capacitance change	Within ±30% of the initial capacitance value												
tan δ	300% 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 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.												
Marking	Printed with silver color letter on dark brown sleeve.												

Radial Lead Type



Type numbering system (Example: 10V 33µF)



Dimensions

V	6.3	10	16	25	35	50
Cap.(µF)	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	5 × 7 29
10	100		4 × 7 29	5 × 7 33	5 × 7 36	6.3 × 7 44
22	220	4 × 7 34	5 × 7 38	5 × 7 44	6.3 × 7 51	6.3 × 7 57
33	330	5 × 7 42	5 × 7 47	6.3 × 7 57	6.3 × 7 63	8 × 7 72
47	470	5 × 7 50	6.3 × 7 59	6.3 × 7 68	8 × 7 78	
100	101	6.3 × 7 77	8 × 7 96	8 × 7 107		
220	221	8 × 7 130				

Rated ripple current (mA rms) 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.