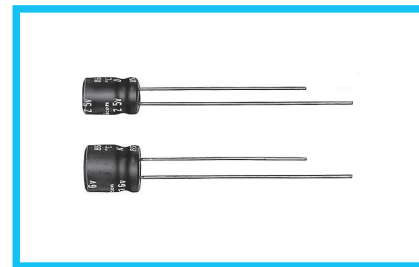


USP

7mmL, Bi-Polarized



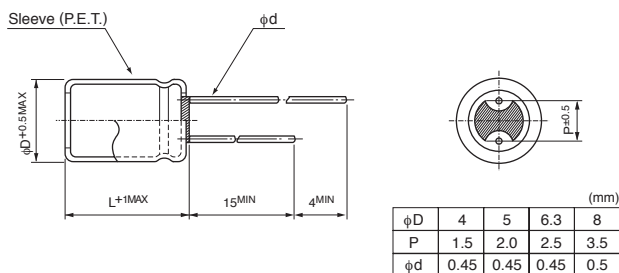
- Bi-polarized series with 7mm height.
- Extended capacitance range by an addition of $\phi 8$ product.
- Compliant to the RoHS directive (2011/65/EU).



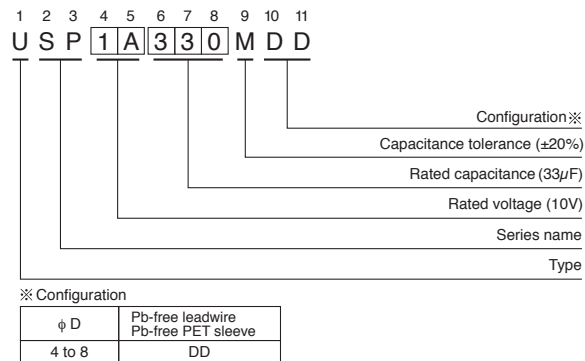
Specifications

Item	Performance Characteristics						
Category Temperature Range	-40 to +85°C						
Rated Voltage Range	6.3 to 50V						
Rated Capacitance Range	0.1 to 220 μ F						
Capacitance Tolerance	$\pm 20\%$ at 120Hz, 20°C						
Leakage Current	After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.05CV or 10 (μ A), 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	0.16	0.14	0.12
Stability at Low Temperature	Measurement frequency : 120 Hz						
	Rated voltage (V)	6.3	10	16	25	35	50
	Impedance ratio ZT / Z20 (MAX.)	Z-25°C / Z+20°C	4	3	2	2	2
		Z-40°C / Z+20°C	8	6	4	4	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 2000 hours at 85°C with the polarity inverted every 250 hours.						
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 white color letter on black sleeve.						

Radial Lead Type



Type numbering system (Example : 10V 33 μ F)



Dimensions

V	6.3	10	16	25	35	50
Cap. (μ F)	0J	1A	1C	1E	1V	1H
0.1	0R1					4 × 7
0.22	R22					4 × 7
0.33	R33					4 × 7
0.47	R47					4 × 7
1	010					4 × 7
2.2	2R2					4 × 7
3.3	3R3					4 × 7
4.7	4R7					4 × 7
10	100	4 × 7	24	5 × 7	30	6.3 × 7
22	220	5 × 7	40	6.3 × 7	51	6.3 × 7
33	330	5 × 7	56	6.3 × 7	63	8 × 7
47	470	6.3 × 7	58	6.3 × 7	67	8 × 7
100	101	8 × 7	95	8 × 7	110	8 × 7
220	221	8 × 7	140			

Case size $\phi D \times L$ (mm)

Rated ripple

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

Rated ripple current (mArms) 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.