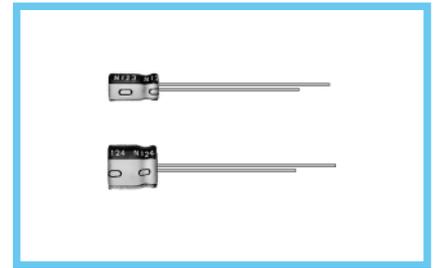


# ALUMINUM ELECTROLYTIC CAPACITORS

**SF** 7mmL, Low Impedance series



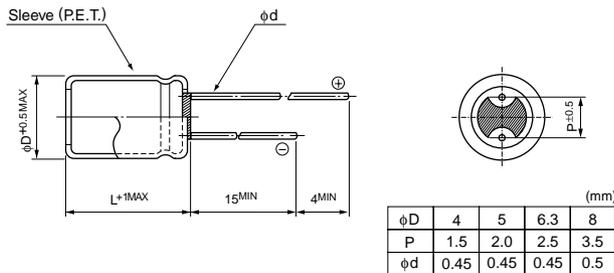
- Low impedance over wide temperature range of  $-55$  to  $+105^{\circ}\text{C}$ , with 7mm height.
- Adapted to the RoHS directive (2002/95/EC).



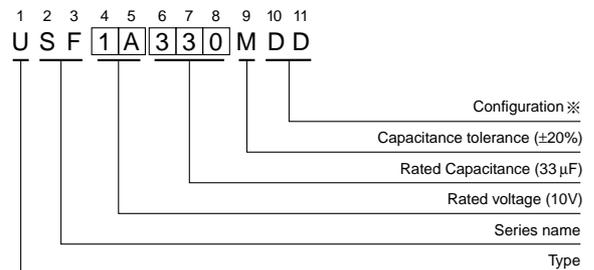
## Specifications

Item	Performance Characteristics						
Category Temperature Range	$-55$ to $+105^{\circ}\text{C}$						
Rated Voltage Range	6.3 to 35V						
Rated Capacitance Range	6.8 to 220 $\mu\text{F}$						
Capacitance Tolerance	$\pm 20\%$ at 120Hz, $20^{\circ}\text{C}$						
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.01CV or 3( $\mu\text{A}$ ), whichever is greater.						
tan $\delta$	Measurement frequency : 120Hz, Temperature : $20^{\circ}\text{C}$						
	Rated voltage (V)	6.3	10	16	25	35	
	tan $\delta$ (MAX.)	0.18	0.16	0.14	0.12	0.12	
Stability at Low Temperature	Measurement frequency : 120Hz						
	Rated voltage (V)		6.3	10	16	25	35
	Impedance ratio	Z- $25^{\circ}\text{C}$ / Z+ $20^{\circ}\text{C}$	2	2	2	2	2
	ZT / Z20 (MAX.)	Z- $55^{\circ}\text{C}$ / Z+ $20^{\circ}\text{C}$	3	3	3	3	3
Endurance	After 1000 hours' application of rated voltage at $105^{\circ}\text{C}$ , capacitors meet the characteristic requirements listed at right.						
	Capacitance change	Within $\pm 20\%$ of initial value					
	tan $\delta$	200% or less of initial specified value					
	Leakage current	Initial specified value or less					
Shelf Life	After storing the capacitors under no load at $105^{\circ}\text{C}$ for 1000 hours, and after performing voltage treatment based on JIS C 5101-4 clause 4.1 at $20^{\circ}\text{C}$ , they will meet the specified value for endurance characteristics listed above.						
Marking	Printed with white color letter on dark brown sleeve.						

## Radial Lead Type



## Type numbering system (Example : 10V 33 $\mu\text{F}$ )



※ Configuration

$\phi D$	Pb-free leadwire Pb-free PET sleeve
4 to 8	DD

## Dimensions

Cap. ( $\mu\text{F}$ )	Code	V		6.3			10			16			25			35		
		6.3	10	16	25	35	6.3	10	16	25	35	6.3	10	16	25	35		
6.8	6R8																	
10	100																	
15	150																	
22	220																	
33	330	5 $\times$ 7	1.7	110	5 $\times$ 7	1.7	110	6.3 $\times$ 7	0.8	160	6.3 $\times$ 7	0.8	160	8 $\times$ 7	0.5	200		
47	470	5 $\times$ 7	1.7	110	6.3 $\times$ 7	0.8	160	6.3 $\times$ 7	0.8	160	8 $\times$ 7	0.5	200					
68	680	6.3 $\times$ 7	0.8	160	6.3 $\times$ 7	0.8	160	8 $\times$ 7	0.5	200								
100	101	6.3 $\times$ 7	0.8	160	8 $\times$ 7	0.5	200											
150	151	8 $\times$ 7	0.5	200	8 $\times$ 7	0.5	200											
220	221	8 $\times$ 7	0.5	200														

Max. Impedance ( $\Omega$ ) at  $20^{\circ}\text{C}$  100kHz  
Rated Ripple (mA rms) at  $105^{\circ}\text{C}$  100kHz

## Frequency coefficient of rated ripple current

Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more
Coefficient	0.35	0.50	0.64	0.83	1.00

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

**CAT.8100W**