

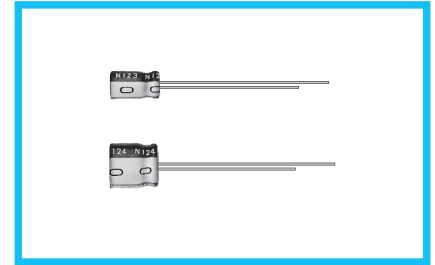
USF

7mmL, Low Impedance



- Low impedance over wide temperature range of -55 to $+105^{\circ}\text{C}$, with 7mm height.
- Compliant to the RoHS directive (2011/65/EU).

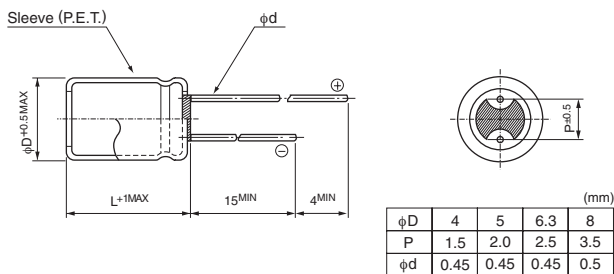
USF Low Impedance **UST**



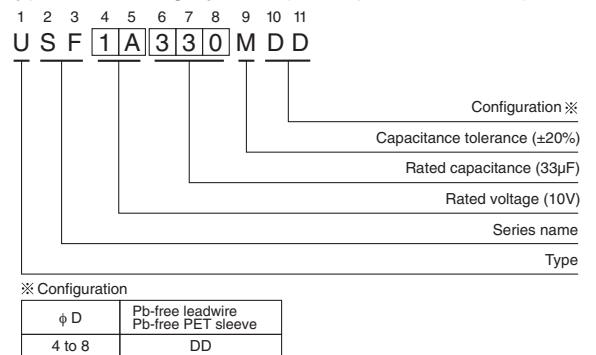
Specifications

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 μF					
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 0.01CV 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
	tan δ (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°C / Z- 20°C	2	2	2	2
	ZT / Z20 (MAX.)	Z- 55°C / Z- 20°C	3	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 1000 hours at 105°C .					
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 white color letter on dark brown sleeve.					

Radial Lead Type



Type numbering system (Example : 10V 33 μF)



Dimensions

V		6.3			10			16			25			35		
Cap. (μF)	Code	0J			1A			1C			1E			1V		
6.8	6R8													4 × 7	3.3	70
10	100										4 × 7	3.3	70	5 × 7	1.7	110
15	150							4 × 7	3.3	70	5 × 7	1.7	110	6.3 × 7	0.8	160
22	220				4 × 7	3.3	70	5 × 7	1.7	110	5 × 7	1.7	110	6.3 × 7	0.8	160
33	330	5 × 7	1.7	110	5 × 7	1.7	110	6.3 × 7	0.8	160	6.3 × 7	0.8	160	8 × 7	0.5	200
47	470	5 × 7	1.7	110	6.3 × 7	0.8	160	6.3 × 7	0.8	160	8 × 7	0.5	200			
68	680	6.3 × 7	0.8	160	6.3 × 7	0.8	160	8 × 7	0.5	200	8 × 7	0.5	200			
100	101	6.3 × 7	0.8	160	8 × 7	0.5	200	8 × 7	0.5	200						
150	151	8 × 7	0.5	200	8 × 7	0.5	200									
220	221	8 × 7	0.5	200												
														Case size $\phi D \times L$ (mm)	Impe- dance	Rated ripple

Max. Impedance (Ω) at 20°C 100kHz
Rated ripple current (mA rms) at 105°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.