

# ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

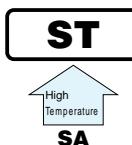
**ST**

7mmL, Wide Temperature Range

series



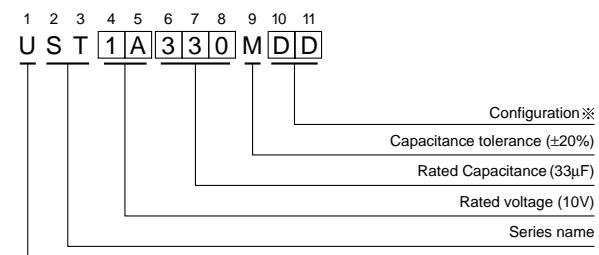
- Wide temperature range of  $-55 \sim +105^{\circ}\text{C}$ , with 7mm height.



## ■ Specifications

Item	Performance Characteristics																												
Category Temperature Range	$-55 \sim +105^{\circ}\text{C}$																												
Rated Voltage Range	6.3 ~ 50V																												
Rated Capacitance Range	0.1 ~ 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.																												
$\tan \delta$	<table border="1"> <thead> <tr> <th>Rated voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td><math>\tan \delta</math> (MAX.)</td> <td>0.24</td> <td>0.21</td> <td>0.18</td> <td>0.15</td> <td>0.13</td> <td>0.12</td> </tr> </tbody> </table>							Rated voltage (V)	6.3	10	16	25	35	50	$\tan \delta$ (MAX.)	0.24	0.21	0.18	0.15	0.13	0.12								
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Shelf Life	After leaving capacitors under no load at $105^{\circ}\text{C}$ for 1000 hours, they meet the specified value for endurance characteristics listed above.																												
Marking	Printed with white color letter on black sleeve.																												

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



※ Configuration

$\phi D$	Pb-free leadwire Pb-free PET sleeve	Sn-Pb finished leadwire PVC sleeve (containing Pb)
4 ~ 6.3	DD	DH
8	DD	CH

※ Please contact to us if other configurations are required.

## ■ Dimensions

Cap. ( $\mu\text{F}$ )	V	Code	$\phi D \times L$ (mm)						
			6.3	10	16	25	35	50	1H
0.1	0R1								$4 \times 7$ 1.0
0.22	R22								$4 \times 7$ 2.3
0.33	R33								$4 \times 7$ 3.5
0.47	R47								$4 \times 7$ 5.0
1	010								$4 \times 7$ 10
2.2	2R2								$4 \times 7$ 19
3.3	3R3								$4 \times 7$ 24
4.7	4R7								$4 \times 7$ 29
10	100					$4 \times 7$ 29	$5 \times 7$ 33	$5 \times 7$ 36	$6.3 \times 7$ 44
22	220	$4 \times 7$	34	$5 \times 7$	38	$5 \times 7$ 44	$6.3 \times 7$ 51	$6.3 \times 7$ 57	$8 \times 7$ 65
33	330	$5 \times 7$	42	$5 \times 7$	47	$6.3 \times 7$ 57	$6.3 \times 7$ 63	$8 \times 7$ 72	
47	470	$5 \times 7$	50	$6.3 \times 7$	59	$6.3 \times 7$ 68	$8 \times 7$ 78		
100	101	$6.3 \times 7$	77	$8 \times 7$	96	$8 \times 7$ 107			
220	221	$8 \times 7$	130	$8 \times 7$	140				Rated ripple
									Case size

Rated Ripple (mA rms) at  $105^{\circ}\text{C}$  120Hz

## ● Frequency coefficient of rated ripple current

Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz
Coefficient	0.70	1.00	1.17	1.36	1.50

Please refer to page 19, 20, 21 about the formed or taped product spec.  
Please refer to page 3 for the minimum order quantity.

CAT.8100T