

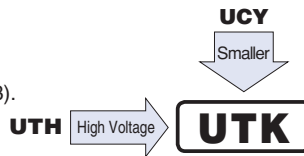
ALUMINUM ELECTROLYTIC CAPACITORS

UTK High Voltage, Miniature sized, Long Life Assurance



NEW

- High ripple current.
- Suited for power supply.
- Load life of 5000 hours at 105°C.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).

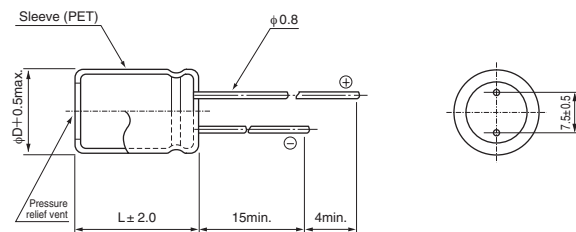


Specifications

Item	Performance Characteristics															
Category Temperature Range	-40 to +105°C															
Rated Voltage Range	475 to 500V															
Rated Capacitance Range	65 to 160μF															
Capacitance Tolerance	± 20% at 120Hz, 20°C															
Leakage Current ※	After 1 minutes' application of rated voltage at 20°C, leakage current is not more than 0.04CV+100 (μA).															
Tangent of loss angle (tan δ)	<table><tr><td colspan="4">Measurement frequency : 120Hz at 20°C</td></tr><tr><td>Rated voltage (V)</td><td>475</td><td colspan="2">500</td></tr><tr><td>tan δ (max.)</td><td>0.25</td><td colspan="2">0.25</td></tr></table>				Measurement frequency : 120Hz at 20°C				Rated voltage (V)	475	500		tan δ (max.)	0.25	0.25	
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Stability at Low Temperature	<table><tr><td colspan="4">Measurement frequency : 120Hz</td></tr><tr><td colspan="2">Rated voltage (V)</td><td>475</td><td>500</td></tr><tr><td colspan="2">Impedance ratio (max.)</td><td>Z(-25°C) / Z(+20°C)</td><td>8 8</td></tr></table>				Measurement frequency : 120Hz				Rated voltage (V)		475	500	Impedance ratio (max.)		Z(-25°C) / Z(+20°C)	8 8
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Endurance	<table><tr><td rowspan="3">The specifications listed at right shall be met when the capacitors are restored to 20°C after D.C. bias plus rated ripple current is applied for 5000 hours at 105°C, the peak voltage shall not exceed the rated voltage.</td><td>Capacitance change</td><td colspan="2">Within ± 20% of the initial capacitance value</td></tr><tr><td>tan δ</td><td colspan="2">200% or less than the initial specified value</td></tr><tr><td>Leakage current</td><td colspan="2">Less than or equal to the initial specified value</td></tr></table>				The specifications listed at right shall be met when the capacitors are restored to 20°C after D.C. bias plus rated ripple current is applied for 5000 hours at 105°C, the peak voltage shall not exceed the rated voltage.	Capacitance change	Within ± 20% of the initial capacitance value		tan δ	200% or less than the initial specified value		Leakage current	Less than or equal to the initial specified value			
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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.															

※ I : Leakage Current (μA), C : Rated Capacitance (μF), V : Rated Voltage (V)

Radial Lead Type

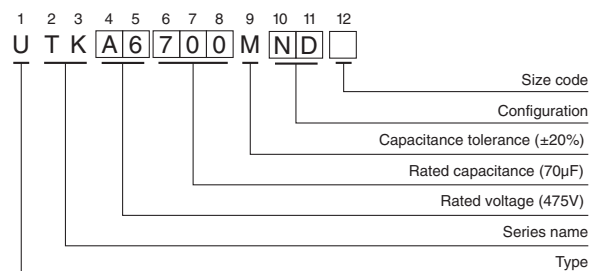


- Please refer to the Guidelines for Aluminum Electrolytic Capacitors for end seal configuration information.

Frequency coefficient of rated ripple current

Frequency	50Hz	120Hz	300Hz	1kHz	10kHz~
Coefficient	0.80	1.00	1.25	1.40	1.60

Type numbering system (Example : 475V 70μF)



•Dimension table in next page.

Design, specifications are subject to change without notice.

ALUMINUM ELECTROLYTIC CAPACITORS

UTK

■ Dimensions

Rated Voltage (V) (code)	Rated Capacitance (μ F)	Case Size ϕ D $\times$ L (mm)	$\tan \delta$	Leakage Current (μ A) (at 20°C after 1 minutes)	Rated Ripple (mA _{rms}) (105°C/120Hz)	Part Number
475 (A6)	70	16 $\times$ 31.5	0.25	1430	580	UTKA6700MND
	85	16 $\times$ 36	0.25	1715	720	UTKA6850MND
	95	16 $\times$ 40	0.25	1905	790	UTKA6950MND
	95	18 $\times$ 31.5	0.25	1905	760	UTKA6950MND6
	110	16 $\times$ 46	0.25	2190	830	UTKA6111MND
	110	18 $\times$ 36	0.25	2190	780	UTKA6111MND6
	120	16 $\times$ 50	0.25	2380	980	UTKA6121MND
	120	18 $\times$ 40	0.25	2380	930	UTKA6121MND6
	150	18 $\times$ 46	0.25	2950	1020	UTKA6151MND
	160	18 $\times$ 50	0.25	3140	1050	UTKA6161MND
500 (2H)	65	16 $\times$ 31.5	0.25	1400	560	UTK2H650MND
	78	16 $\times$ 36	0.25	1660	690	UTK2H780MND
	82	16 $\times$ 40	0.25	1740	750	UTK2H820MND
	82	18 $\times$ 31.5	0.25	1740	710	UTK2H820MND6
	100	16 $\times$ 46	0.25	2100	790	UTK2H101MND
	100	18 $\times$ 36	0.25	2100	750	UTK2H101MND6
	110	16 $\times$ 50	0.25	2300	930	UTK2H111MND
	110	18 $\times$ 40	0.25	2300	890	UTK2H111MND6
	130	18 $\times$ 46	0.25	2700	980	UTK2H131MND
	150	18 $\times$ 50	0.25	3100	1010	UTK2H151MND

For cut leads, formed leads or taped parts, please add the appropriate code after the size code (12th digit).

If there is no size code in the part number, please add size code "1" and then add the appropriate code.

- For formed lead or taped product specifications and minimum order quantity, please refer to the Guidelines for Aluminum Electrolytic Capacitors.

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NICHICON CORPORATION