ALUMINUM ELECTROLYTIC CAPACITORS

Miniature Sized, Low Impedance, High Reliability For Switching Power Supplies

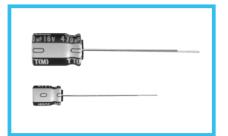






- Smaller case size and Long Life product.
- Compliant to the RoHS directive (2002/95/EC).

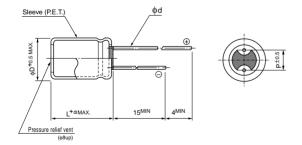




■Specifications

Item		Performance Characteristics								
Category Temperature Range	-40 to +105°C	40 to +105°C								
Rated Voltage Range	6.3 to 50V	3 to 50V								
Rated Capacitance Range	1 to 470µF	to 470µF								
Capacitance Tolerance	±20% at 120Hz, 20	20% at 120Hz, 20°C								
Leakage Current	After 2 minutes' app	lication of rated vo	oltage, leakage cu	rrent is les	s than ().03CV or 3 (µ	ıA), whichev	er is greater	•	
	Measurement frequency : 120Hz, Temperature : 20°C									
Tangent of loss angle (tan δ)	Rated voltage (V)	6.3	10	16	25			35	50	
	tan δ (MAX.)	0.30	0.28	0.24	4 0.18			0.16	0.14	
	Measurement frequency : 120Hz									
	Rated voltage (V)		6.3	10		16	25	35	50	
Stability at Low Temperature	Impedance ratio	Z-25°C / Z+20°C	5	4		3	3	3	3	
	ZT / Z20 (MAX.)	Z-40°C / Z+20°C	10	10		8	6	4	4	
	The specifications li	sted at right shall	be met when the		Capac	itance change	Within ±30%	6 of the initial of	capacitance value	
Endurance	capacitors are resto	capacitors are restored to 20°C after the rated voltage is						300% or less than the initial specified value		
	applied for 5000 hou	applied for 5000 hours at 105°C. Leakage current Less than or equal to the initial specified value								
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 co	rinted with white color letter on dark blown sleeve.								

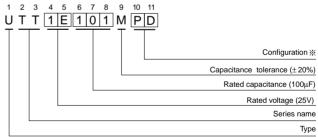
■Radial Lead Type



	(L = 7) 1.0
α	(L ≥ 9) 1.5

				(mm)
φD	4	5	6.3	8
Р	1.5	2.0	2.5	3.5
φd	0.45	0.45	0.5 (0.45)	0.6

^{():} Applied to 7mmL products



Type numbering system (Example: 25V 100µF)

Configuration							
φD	Pb-free leadwire Pb-free PET sleeve						
4							
5	DD						
6.3							
8	PD						

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

[•] Please refer to page 20 about the end seal configulation.



■Standard Ratings

	V (Code)		6.3 (0J)		10 (1A)			16 (1C)			
Cap.(µF) Code		Case size ϕ D × L (mm)	Impedance (Ω) MAX. 20°C / 100kHz	Rated ripple (mArms) 105°C / 100kHz	Case size ϕ D × L (mm)	Impedance (Ω) MAX. 20°C / 100kHz	Rated ripple (mArms) 105°C / 100kHz	Case size ϕ D × L (mm)	Impedance (Ω) MAX. 20°C / 100kHz	Rated ripple (mArms) 105°C / 100kHz	
10	100							4×7	7.4	46	
22	220	4×7	7.4	46				5×7	4.0	74	
33	330				5×7	4.0	74				
47	470	5×7	4.0	74				6.3×7	2.1	120	
100	101	6.3×7	2.1	120				6.3×9	1.1	163	
150	151				6.3×9	1.1	163	8×9	0.68	230	
220	221	6.3×9	1.1	163	8×9	0.68	230	8×9	0.68	230	
330	331	8×9	0.68	230				8×9	0.68	230	
470	471	8×9	0.68	230				8 × 11.5	0.40	298	

	V (Code)	25 (1E) 35 (1V)					50 (1H)			
Cap.(µF) Code		Case size $\phi D \times L$ (mm)	Impedance (Ω) MAX. 20°C / 100kHz	Rated ripple (mArms) 105°C / 100kHz	Case size $\phi D \times L$ (mm)	Impedance (Ω) MAX. 20°C / 100kHz	Rated ripple (mArms) 105°C / 100kHz	Case size ϕ D \times L (mm)	Impedance (Ω) MAX. 20°C / 100kHz	Rated ripple (mArms) 105°C / 100kHz
1 " /	$\overline{}$	()	20 C / 100kH2	103 C / 100KHZ	(,	20 C / 100KHZ	103 C / 100KHZ	. ,		
1	010							4×7	30	23
2.2	2R2							4×7	23	26
3.3	3R3							4×7	20	29
4.7	4R7				4×7	7.4	37	5×7	14	37
10	100				5×7	4.0	74	6.3×7	4.4	84
22	220	5×7	4.0	74	6.3×7	2.1	120	6.3×9	2.4	112
33	330	6.3×7	2.1	120	6.3×9	1.1	163			
47	470	6.3×9	1.1	163	6.3×9	1.1	163	8×9	1.4	162
100	101	8×9	0.68	230						
150	151									
220	221	8×11.5	0.40	298						
330	331	8×11.5	0.40	298						

• Frequency coefficient of rated ripple current

Cap. (µF)	50Hz	120Hz	300Hz	1kHz	10kHz	100kHz
1 to 4.7	0.25	0.30	0.50	0.70	0.90	1.00
10 to 47	0.30	0.40	0.60	0.75	0.90	1.00
100 to 470	0.60	0.60	0.70	0.80	0.90	1.00