

Aluminum Electrolytic Capacitors



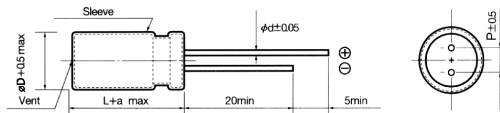
Radial Ultra Miniature 85°C and 105°C

UTLML, UTWSL Series

- The usage as same as UTLML/UTWS series
- It provides a smaller size as 7mm height

SPECIFICATION		SPECIFICATION									
ITEM											
Capacitance Tolerance (120Hz 20°C)		±20% (M)									
Rated Working Voltage		4WV~63WV									
Operation Temperature Range		-40 ~ +85°C (UTLML Series)					-40 ~ +105°C (UTWSL Series)				
Surge Voltage(V) (20°C)	WV	4	6.3	10	16	25	35	50	63		
	SV	5	8	13	20	32	44	63	79		
Leakage Current (20°C)		≤0.06CV +10									
	Where	After rated voltage applied for 3 minutes I : Leakage Current (μA) C : Capacitance (μF) V : Voltage (V)									
Dissipation Factor (tan δ) (120 Hz 20°C)	WV	4	6.3	10	16	25	35	50	63		
	DF	0.35	0.24	0.20	0.16	0.16	0.14	0.12	0.10		
Low Temperature Characteristics	Impedance ratio at 120Hz										
	Comparison ΔWV	4	6.3	10	16	25	35	50	63		
	-25°C / 2θ°C	6	4	3	2	2	2	2	2	2	
	-40°C / 2θ°C	12	8	6	4	4	3	3	3		
Load Life	After 1000 hours application of W V .at 85°C (UTLML Series), 105°C (UTWSL Series), the capacitor shall meet the following limits										
	Capacitance Change					≤±20 % of Initial Value					
	Dissipation Factor					≤200 % of Initial Specified Value					
Shelf Life	After 500 hours to place at 85°C (UTLML Series) or 105°C (UTWSL Series) without rated voltage applied, the capacitor shall meet the limits as same as load life										
	Others										
Satisfied JIS C-5141											

DIMENSIONS (unit:mm)



φD	4	5	6.3
P	1.5	2.0	2.5
φd	0.45	0.5	0.5
a	1.0	1.0	1.0

RIPPLE CURRENT COEFFICIENTS

Frequency Multipliers

Freq. (Hz)	50	120	1k	10k~
WV				
6.3~16	0.80	1.00	1.10	1.20
25~35	0.80	1.00	1.50	1.70
50~63	0.80	1.00	1.60	1.90

Temperature Multipliers

Temp. (°C)	~75	85	105
Coefficient	1.35	1.00	0.85

CASE SIZE & MAX RIPPLE CURRENT

CAP Code	μF	CASE SIZE ØDxL (mm)										MAX RIPPLE CURRENT (mA/120Hz), (85°C/UTLML Series, 105°C/UTWSL Series)							
		4		6.3		10		16		25		35		50		63			
WV		ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA		
0R1	0.10													4x7	1.5	4x7	3.2		
R22	0.22													4x7	3.2	4x7	4.8		
R33	0.33													4x7	4.3	4x7	6.4		
R47	0.47													4x7	5.8	4x7	7.2		
010	1.0													4x7	9.8	4x7	11		
2R2	2.2											4x7	12	4x7	15	5x7	19		
3R3	3.3									4x7	15	5x7	16	5x7	18	6.3x7	26		
4R7	4.7							4x7	19	5x7	19	5x7	21	6.3x7	24	6.3x7	32		
100	10					4x7	24	5x7	27	6.3x7	31	6.3x7	35						
220	22			5x7	31	5x7	38	6.3x7	45	6.3x7	49								
330	33	5x7	32	5x7	40	6.3x7	49	6.3x7	56	6.3x7	61								
470	47	5x7	37	6.3x7	47	6.3x7	60	6.3x7	68										
101	100	6.3x7	60																