

SNAP MOUNT TYPE ALUMINUM ELECTROLYTIC CAPACITORS

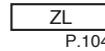
NEW!

ZLC Series Useful of 5,000 hours at 105°C

• Conform RoHS

Features

- Capacitance is approximately 30% higher than that of the conventional compact ZL series, achieved through the use of a highly reliable electrolyte and a special high-capacitance anode foil.



→ Small-size

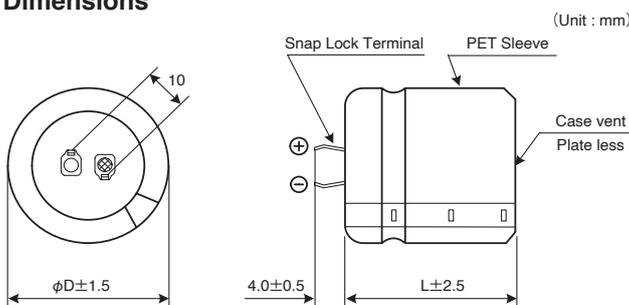


ALUMINUM ELECTROLYTIC CAPACITORS

Product Specifications

Items	Specifications
Temperature range	-25 ~ +105°C
Rated voltage	450V.DC
Capacitance tolerance	±20% (20°C, 120Hz)
Leakage current	0.02CV (µA) or 3mA, whichever is smaller or less (20°C, after 5 minutes) [C = nominal capacitance (µF), V = rated voltage (V)]
Dissipation factor	Less than the value specified in the standard products table. (20°C, 120Hz)
Permissible ripple current	As specified in the standard product table. (105°C, 120Hz)
Endurance	After the rated voltage with specified ripple current is applied at 105°C for 3,000 hour : Capacitance change : Within ±20% of the initial value measured Dissipation factor : 300% or less than the initial value specified Leakage current : Less than or equal to the initial value specified
Shelf life	The following specification shall be meet when the capacitor are restored to 20°C after storage of 500 hours at 105°C with no voltage applied. Before the measurement, the capacitor shall be preconditioned by applying the voltage treatment according to Item 4.1 of JIS C 5101-4. Capacitance change : Within ±15% of the initial value measured Dissipation factor : 175% or less than the initial value specified Leakage current : Less than or equal to the initial value specified
Others	JIS C 5101-4

Dimensions



Ripple current correction coefficient

Temperature (°C)	60	70	85	105	
Correction coefficient	1.8	1.6	1.3	1.0	
Frequency (Hz)	50/60	120	300	1K	≥10K
Correction coefficient	0.7	1.0	1.1	1.2	1.3

Terminal permissible current is limited to 10Arms. (Even if calculated the permissible ripple current with the correction coefficient exceeds 10Arms)
Please consult us when the ripple voltage exceeds 70Vp-p.

Product code

(Example) ZLC series 450V 1,100µF±20%

ZLC 2W 112 M C Z S9 WP EC

- ZLC: Type of series
- 2W: Rated voltage code
- 112: Capacitance code
- M: Capacitance tolerance code
- C: Case dia code
- Z: Case height code
- S9: Plate code
- WP: Environmental code
- EC: Terminal code

Refer to page 84-85 for other terminal shape available on request.

Standard Products Table

Rated Voltage (V. DC)	Capacitance (μ F)	Case size φ D × L (mm)	tanδ 20°C, 120Hz	Ripple current (Arms) 105°C, 120Hz	ESR (typ.) (mΩ) 20°C, 100Hz	Product name
450	450	22 × 50	0.30	1.43	544	ZLC2W451MCXS7WPEC
	500	22 × 55	0.30	1.55	490	ZLC2W501MCXS8WPEC
	550	22 × 60	0.30	1.67	445	ZLC2W551MCXS9WPEC
	590	25 × 50	0.30	1.70	415	ZLC2W591MCYS7WPEC
	670	25 × 55	0.30	1.87	365	ZLC2W671MCYS8WPEC
	740	25 × 60	0.30	2.01	331	ZLC2W741MCYS9WPEC
	890	30 × 50	0.30	2.19	275	ZLC2W891MCZS7WPEC
	990	30 × 55	0.30	2.37	247	ZLC2W991MCZS8WPEC
	1,100	30 × 60	0.30	2.56	223	ZLC2W112MCZS9WPEC
	1,170	35 × 50	0.30	2.57	209	ZLC2W1170UFMCAS7WPEC
	1,180	30 × 65	0.30	2.68	207	ZLC2W1180UFMCZS10WPEC
	1,310	35 × 55	0.30	2.80	187	ZLC2W1310UFMCAS8WPEC
	1,320	30 × 70	0.30	2.86	185	ZLC2W1320UFMCZS11WPEC
	1,360	30 × 75	0.30	2.92	180	ZLC2W1360UFMCZS12WPEC
	1,440	30 × 80	0.30	3.03	170	ZLC2W1440UFMCZS13WPEC
	1,450	35 × 60	0.30	3.01	169	ZLC2W1450UFMCAS9WPEC
	1,500	35 × 65	0.30	3.09	163	ZLC2W152MCAS10WPEC
	1,620	35 × 70	0.30	3.24	151	ZLC2W1620UFMCAS11WPEC
1,720	35 × 75	0.30	3.36	142	ZLC2W1720UFMCAS12WPEC	
1,840	35 × 80	0.30	3.50	133	ZLC2W1840UFMCAS13WPEC	

Life time graph

Useful life depending on ambient temperature Ta and ripple current operating condition I versus rated ripple current at 105°C, 120Hz

