

SNAP MOUNT TYPE ALUMINUM ELECTROLYTIC CAPACITORS

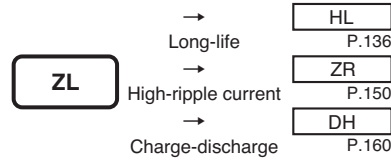
UPGRADE!

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

• Conform RoHS

Features

• The ZL series is the miniaturization products of 5,000 hours.



ALUMINUM ELECTROLYTIC CAPACITORS

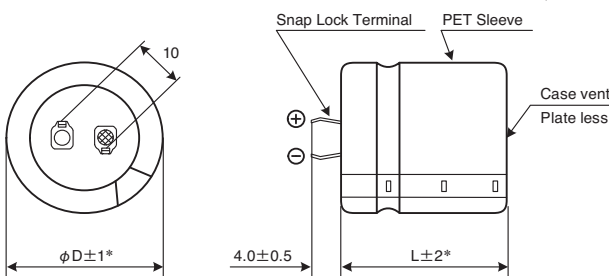
Product Specifications

Items	Specifications
Temperature range	-40°C ~ +105°C (200V.DC ~ 250V.DC) -25°C ~ +105°C (315V.DC ~ 550V.DC)
Rated voltage	200 ~ 550V.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 products table. (105°C, 120Hz)
Endurance	After the rated voltage with specified ripple current is applied at 105°C for 3000 hours : Capacitance change : Within ±20% of the initial value measured Dissipation factor : 200% 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

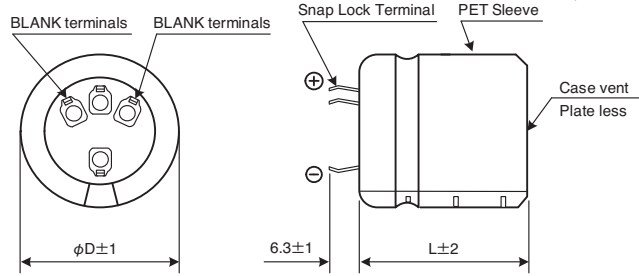
2-claw short terminal (Terminal code : C)

(Unit : mm)



4-claw terminal (Terminal code : S)

(Unit : mm)



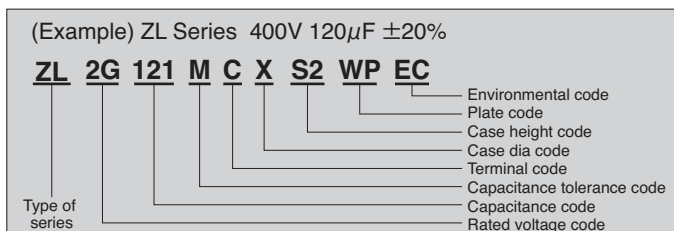
* Products marked with "*" in the standard products table : φD±1.5, L±2.5
(For details of product specifications please request specification sheet.)

Ripple current correction coefficient

Temperature (°C)	60	70	85	105	
Correction coefficient	200~500V.DC	1.9	1.7	1.4	1.0
	550V.DC	1.7	1.5	1.3	1.0
Frequency (Hz)	50/60	120	300	1K	≥10K
Correction coefficient	0.7	1.0	1.1	1.3	1.4

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



Refer to page 118-119 for other terminal shape available on request.

SNAP MOUNT TYPE ALUMINUM ELECTROLYTIC CAPACITORS

ZL Series

Standard Products Table

Rated Voltage (V. DC)	Capacitance (μF)	Case size φ D × L (mm)	tanδ 20°C, 120Hz	Ripple current (Arms) 105°C, 120Hz	ESR(typ.) (mΩ) 20°C, 100Hz	Product name
	470	22×30	0.15	1.37	240	ZL2D471MCXS3WPEC
		25×25	0.15	1.36	240	ZL2D471MCYS2WPEC
	560	22×35	0.15	1.57	200	ZL2D561MCXS4WPEC
		25×30	0.15	1.57	200	ZL2D561MCYS3WPEC
	680	22×40	0.15	1.81	160	ZL2D681MCXS5WPEC
		30×25	0.15	1.75	160	ZL2D681MCZS2WPEC
	820	22×45	0.15	2.06	140	ZL2D821MCXS6WPEC
		25×35	0.15	1.99	140	ZL2D821MCYS4WPEC
	1,000	25×45	0.15	2.37	110	ZL2D102MCYS6WPEC
		30×30	0.15	2.24	110	ZL2D102MCZS3WPEC
		35×25	0.15	1.94	110	ZL2D102MCAS2WPEC
	1,200	25×50	0.15	2.67	100	ZL2D122MCYS7WPEC
		30×35	0.15	2.56	100	ZL2D122MCZS4WPEC
		35×30	0.15	2.23	100	ZL2D122MCAS3WPEC
	1,500	30×45	0.15	3.08	80	ZL2D152MCZS6WPEC
		35×35	0.15	2.61	80	ZL2D152MCAS4WPEC
	1,800	30×50	0.15	3.49	70	ZL2D182MCZS7WPEC
		35×40	0.15	2.97	70	ZL2D182MCAS5WPEC
	2,200	35×45	0.15	3.39	50	ZL2D222MCAS6WPEC
	2,700	35×50	0.15	3.86	50	ZL2D272MCAS7WPEC
250	270	22×25	0.15	0.98	360	ZL2E271MCXS2WPEC
	330	22×30	0.15	1.15	290	ZL2E331MCXS3WPEC
		25×25	0.15	1.14	290	ZL2E331MCYS2WPEC
	390	22×35	0.15	1.31	250	ZL2E391MCXS4WPEC
	470	22×40	0.15	1.50	210	ZL2E471MCXS5WPEC
		25×30	0.15	1.43	210	ZL2E471MCYS3WPEC
		30×25	0.15	1.45	210	ZL2E471MCZS2WPEC
	560	22×45	0.15	1.70	180	ZL2E561MCXS6WPEC
		25×35	0.15	1.64	180	ZL2E561MCYS4WPEC
	680	22×50	0.15	1.95	150	ZL2E681MCXS7WPEC
		25×40	0.15	1.88	150	ZL2E681MCYS5WPEC
		30×30	0.15	1.85	150	ZL2E681MCZS3WPEC
		35×25	0.15	1.60	150	ZL2E681MCAS2WPEC
	820	25×45	0.15	2.14	120	ZL2E821MCYS6WPEC
		30×35	0.15	2.12	120	ZL2E821MCZS4WPEC
	1,000	35×30	0.15	1.84	120	ZL2E821MCAS3WPEC
		30×40	0.15	2.44	100	ZL2E102MCZS5WPEC
	1,200	30×45	0.15	2.76	80	ZL2E122MCZS6WPEC
35×35		0.15	2.33	80	ZL2E122MCAS4WPEC	
1,500	35×45	0.15	2.80	70	ZL2E152MCAS6WPEC	
1,800	35×50	0.15	3.16	60	ZL2E182MCAS7WPEC	
315	180	22×25	0.20	0.95	710	ZL2F181MCXS2WPEC
	220	22×30	0.20	1.10	580	ZL2F221MCXS3WPEC
		25×25	0.20	1.10	580	ZL2F221MCYS2WPEC
	270	22×35	0.20	1.24	480	ZL2F271MCXS4WPEC
		25×30	0.20	1.25	480	ZL2F271MCYS3WPEC
	330	22×40	0.20	1.40	390	ZL2F331MCXS5WPEC
		30×25	0.20	1.43	390	ZL2F331MCZS2WPEC
	390	22×45	0.20	1.56	330	ZL2F391MCXS6WPEC
		25×35	0.20	1.57	330	ZL2F391MCYS4WPEC
	470	25×40	0.20	1.76	280	ZL2F471MCYS5WPEC
		30×30	0.20	1.73	280	ZL2F471MCZS3WPEC
		35×25	0.20	1.48	280	ZL2F471MCAS2WPEC
	560	25×50	0.20	1.99	230	ZL2F561MCYS7WPEC
		30×35	0.20	1.93	230	ZL2F561MCZS4WPEC
	680	35×30	0.20	1.70	230	ZL2F561MCAS3WPEC
		30×40	0.20	2.19	190	ZL2F681MCZS5WPEC
	820	35×35	0.20	1.96	190	ZL2F681MCAS4WPEC
		30×45	0.20	2.47	160	ZL2F821MCZS6WPEC
	1,000	35×40	0.20	2.23	160	ZL2F821MCAS5WPEC
	1,000	35×45	0.20	2.55	130	ZL2F102MCAS6WPEC
	1,200	35×50	0.20	2.87	110	ZL2F122MCAS7WPEC

Rated Voltage (V. DC)	Capacitance (μF)	Case size φ D × L (mm)	tanδ 20°C, 120Hz	Ripple current (Arms) 105°C, 120Hz	ESR(typ.) (mΩ) 20°C, 100Hz	Product name
	150	22×25*	0.20	0.87	640	ZL2G151MCXS2WPEC
	180	22×30*	0.20	1.01	540	ZL2G181MCXS3WPEC
		25×25	0.20	0.99	540	ZL2G181MCYS2WPEC
	220	22×30*	0.20	1.11	440	ZL2G221MCXS3WPEC
		22×35	0.20	1.17	440	ZL2G221MCXS4WPEC
		25×25*	0.20	1.10	440	ZL2G221MCYS2WPEC
	270	25×30	0.20	1.16	440	ZL2G221MCYS3WPEC
		22×35*	0.20	1.29	360	ZL2G271MCXS4WPEC
		25×30*	0.20	1.28	360	ZL2G271MCYS3WPEC
		25×35	0.20	1.35	360	ZL2G271MCYS4WPEC
	330	30×25	0.20	1.28	360	ZL2G271MCZS2WPEC
		22×45*	0.20	1.54	290	ZL2G331MCXS6WPEC
		22×50	0.20	1.59	290	ZL2G331MCXS7WPEC
		25×35*	0.20	1.49	290	ZL2G331MCYS4WPEC
	390	25×40	0.20	1.55	290	ZL2G331MCYS5WPEC
		30×25*	0.20	1.41	290	ZL2G331MCZS2WPEC
		30×30	0.20	1.49	290	ZL2G331MCZS3WPEC
		35×25	0.20	1.46	290	ZL2G331MCAS2WPEC
		22×50*	0.20	1.73	250	ZL2G391MCXS7WPEC
		25×40*	0.20	1.68	250	ZL2G391MCYS5WPEC
	470	25×45	0.20	1.74	250	ZL2G391MCYS6WPEC
		30×30*	0.20	1.62	250	ZL2G391MCZS3WPEC
		30×35	0.20	1.70	250	ZL2G391MCZS4WPEC
		35×25*	0.20	1.59	250	ZL2G391MCAS2WPEC
	560	25×45*	0.20	1.92	210	ZL2G471MCYS6WPEC
		25×50*	0.20	1.98	210	ZL2G471MCYS7WPEC
		30×35*	0.20	1.86	210	ZL2G471MCZS4WPEC
		30×40	0.20	1.94	210	ZL2G471MCZS5WPEC
	680	35×30	0.20	1.84	210	ZL2G471MCAS2WPEC
		25×50*	0.20	2.16	180	ZL2G561MCYS7WPEC
		30×40*	0.20	2.11	180	ZL2G561MCZS5WPEC
		30×45	0.20	2.19	180	ZL2G561MCZS6WPEC
	820	35×30*	0.20	2.01	180	ZL2G561MCAS3WPEC
		35×35	0.20	2.09	180	ZL2G561MCAS4WPEC
		25×60*	0.20	2.51	150	ZL2G681MCYS9WPEC
		30×45*	0.20	2.41	150	ZL2G681MCZS6WPEC
	1,000	30×50	0.20	2.48	150	ZL2G681MCZS7WPEC
		35×35*	0.20	2.31	150	ZL2G681MCAS4WPEC
		35×40	0.20	2.40	150	ZL2G681MCAS5WPEC
		30×50*	0.20	2.65	120	ZL2G821MCZS7WPEC
	1,200	35×40*	0.20	2.63	120	ZL2G821MCAS5WPEC
		35×45	0.20	2.72	120	ZL2G821MCAS6WPEC
	1,500	30×60*	0.20	3.17	100	ZL2G102MCZS9WPEC
		35×50*	0.20	3.09	100	ZL2G102MCAS7WPEC
	1,800	35×55*	0.20	3.38	80	ZL2G122MCAS8WPEC
	1,800	35×100	0.20	3.93	70	ZL2G152MSAS17WPEC
		40×76	0.20	3.99	70	ZL2G152MSBS12WPEC
	1,800	40×101	0.20	4.47	60	ZL2G182MSBS17WPEC

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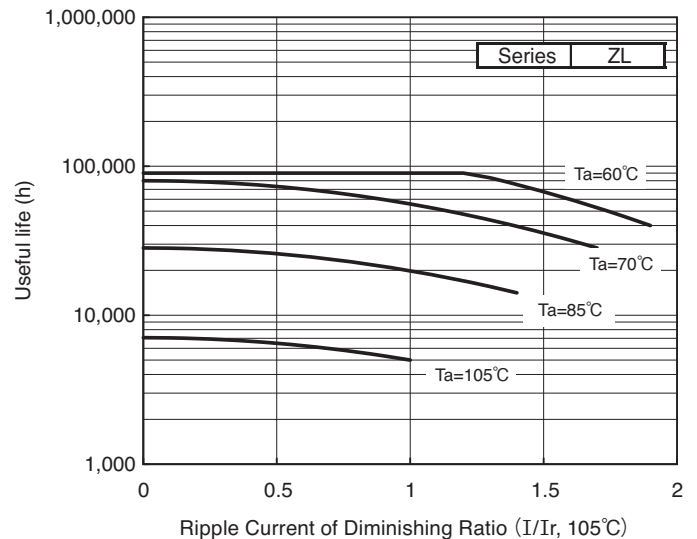
Standard Products Table

Rated Voltage (V. DC)	Capacitance (μF)	Case size φD×L (mm)	tanδ 20°C, 120Hz	Ripple current (Arms) 105°C, 120Hz	ESR(typ.) (mΩ) 20°C, 100Hz	Product name
420	120	22×25	0.20	0.77	850	ZL420V121MCXS2WPEC
		22×25*	0.20	0.87	680	ZL420V151MCXS2WPEC
	150	22×30	0.20	0.92	680	ZL420V151MCXS3WPEC
		25×25	0.20	0.90	680	ZL420V151MCYS2WPEC
	180	22×30*	0.20	1.01	570	ZL420V181MCXS3WPEC
		22×35	0.20	1.05	570	ZL420V181MCXS4WPEC
		25×25*	0.20	0.99	570	ZL420V181MCYS2WPEC
	220	22×35*	0.20	1.17	470	ZL420V221MCXS4WPEC
		22×40	0.20	1.22	470	ZL420V221MCXS5WPEC
		25×30*	0.20	1.16	470	ZL420V221MCYS3WPEC
		30×25	0.20	1.15	470	ZL420V221MCZS2WPEC
	270	22×40*	0.20	1.35	380	ZL420V271MCXS5WPEC
		22×45	0.20	1.40	380	ZL420V271MCXS6WPEC
		25×30*	0.20	1.25	380	ZL420V271MCYS3WPEC
		25×35*	0.20	1.35	380	ZL420V271MCYS4WPEC
	330	30×25*	0.20	1.28	380	ZL420V271MCZS2WPEC
		22×45*	0.20	1.54	310	ZL420V331MCXS6WPEC
		25×35*	0.20	1.45	310	ZL420V331MCYS4WPEC
	390	30×30*	0.20	1.49	310	ZL420V331MCZS3WPEC
		25×40*	0.20	1.64	270	ZL420V391MCYS5WPEC
		30×30*	0.20	1.62	270	ZL420V391MCZS3WPEC
		30×35	0.20	1.70	270	ZL420V391MCZS4WPEC
	470	35×25*	0.20	1.59	270	ZL420V391MCAS2WPEC
		35×30	0.20	1.67	270	ZL420V391MCAS3WPEC
		25×50*	0.20	1.98	220	ZL420V471MCYS7WPEC
	560	30×35*	0.20	1.86	220	ZL420V471MCZS4WPEC
		30×40	0.20	1.94	220	ZL420V471MCZS5WPEC
		35×30*	0.20	1.84	220	ZL420V471MCAS3WPEC
	680	35×35	0.20	1.92	220	ZL420V471MCAS4WPEC
		25×55*	0.20	2.16	190	ZL420V561MCYS8WPEC
		30×40*	0.20	2.11	190	ZL420V561MCZS5WPEC
	820	35×35*	0.20	2.09	190	ZL420V561MCAS4WPEC
		35×40	0.20	2.18	190	ZL420V561MCAS5WPEC
		30×50*	0.20	2.48	150	ZL420V681MCZS7WPEC
	1,000	35×40*	0.20	2.48	150	ZL420V681MCAS5WPEC
		35×45	0.20	2.48	150	ZL420V681MCAS6WPEC
		30×55*	0.20	2.81	130	ZL420V821MCZS8WPEC
	1,200	35×45*	0.20	2.72	130	ZL420V821MCAS6WPEC
		35×50	0.20	2.80	130	ZL420V821MCAS7WPEC
		35×55*	0.20	3.18	110	ZL420V102MCAS8WPEC
	1,500	35×60	0.20	3.25	110	ZL420V102MCAS9WPEC
		40×56	0.20	3.30	110	ZL420V102MSBS8WPEC
1,500	35×100	0.20	3.51	90	ZL420V122MSAS17WPEC	
	40×76	0.20	3.57	90	ZL420V122MSBS12WPEC	
1,500	40×101	0.20	4.07	70	ZL420V152MSBS17WPEC	

Rated Voltage (V. DC)	Capacitance (μF)	Case size φD×L (mm)	tanδ 20°C, 120Hz	Ripple current (Arms) 105°C, 120Hz	ESR(typ.) (mΩ) 20°C, 100Hz	Product name
450	120	22×25*	0.20	0.77	850	ZL2W121MCXS2WPEC
		22×30*	0.20	0.92	680	ZL2W151MCXS3WPEC
	150	25×25	0.20	0.90	680	ZL2W151MCYS2WPEC
		22×30*	0.20	1.01	570	ZL2W181MCXS3WPEC
		22×35	0.20	1.05	570	ZL2W181MCXS4WPEC
	180	25×25*	0.20	0.99	570	ZL2W181MCYS2WPEC
		25×30	0.20	1.05	570	ZL2W181MCYS3WPEC
		22×35*	0.20	1.17	470	ZL2W221MCXS4WPEC
	220	25×30*	0.20	1.16	470	ZL2W221MCYS3WPEC
		25×35	0.20	1.21	470	ZL2W221MCYS4WPEC
		30×25	0.20	1.15	470	ZL2W221MCZS2WPEC
		22×40*	0.20	1.31	380	ZL2W271MCXS5WPEC
	270	25×35*	0.20	1.35	380	ZL2W271MCYS5WPEC
		25×40	0.20	1.40	380	ZL2W271MCYS6WPEC
		30×25*	0.20	1.28	380	ZL2W271MCZS2WPEC
		30×30	0.20	1.35	380	ZL2W271MCZS3WPEC
	330	35×25	0.20	1.32	380	ZL2W271MCAS2WPEC
		22×50*	0.20	1.59	310	ZL2W331MCXS7WPEC
		25×40*	0.20	1.55	310	ZL2W331MCYS5WPEC
		25×45	0.20	1.61	310	ZL2W331MCYS6WPEC
	390	30×30*	0.20	1.49	310	ZL2W331MCZS3WPEC
		35×25*	0.20	1.46	310	ZL2W331MCAS2WPEC
		25×45*	0.20	1.74	270	ZL2W391MCYS6WPEC
		25×50*	0.20	1.80	270	ZL2W391MCYS7WPEC
	470	30×35*	0.20	1.70	270	ZL2W391MCZS4WPEC
		35×30	0.20	1.67	270	ZL2W391MCAS3WPEC
		25×50*	0.20	1.92	220	ZL2W471MCYS7WPEC
		30×40*	0.20	1.94	220	ZL2W471MCZS5WPEC
	560	35×30*	0.20	1.84	220	ZL2W471MCAS3WPEC
		35×35	0.20	1.92	220	ZL2W471MCAS4WPEC
		25×60*	0.20	2.27	190	ZL2W561MCYS9WPEC
		30×45*	0.20	2.19	190	ZL2W561MCZS6WPEC
	680	30×50	0.20	2.25	190	ZL2W561MCZS7WPEC
		35×35*	0.20	2.09	190	ZL2W561MCAS4WPEC
		35×40	0.20	2.18	190	ZL2W561MCAS5WPEC
	820	30×50*	0.20	2.48	150	ZL2W681MCZS7WPEC
		35×40*	0.20	2.40	150	ZL2W681MCAS5WPEC
		35×45	0.20	2.48	150	ZL2W681MCAS6WPEC
	1,000	30×60*	0.20	2.87	130	ZL2W821MCZS9WPEC
		35×45*	0.20	2.64	130	ZL2W821MCAS6WPEC
		35×50*	0.20	2.80	130	ZL2W821MCAS7WPEC
	1,200	35×55*	0.20	3.18	110	ZL2W102MCAS8WPEC
1,500	35×100	0.20	3.51	90	ZL2W122MSAS17WPEC	
	40×76	0.20	3.57	90	ZL2W122MSBS12WPEC	
1,500	40×101	0.20	4.07	70	ZL2W152MSBS17WPEC	

Life time graph

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



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ZL Series

Standard Products Table

Rated Voltage (V. DC)	Capacitance (μF)	Case size φD×L (mm)	tanδ 20°C, 120Hz	Ripple current (Arms) 105°C, 120Hz	ESR(typ.) (mΩ) 20°C, 100Hz	Product name
475	82	22×25	0.20	0.64	1,170	ZL475V820MCXS2WPEC
		22×25*	0.20	0.69	960	ZL475V101MCXS2WPEC
	100	22×30	0.20	0.75	960	ZL475V101MCXS3WPEC
		25×25	0.20	0.74	960	ZL475V101MCYS2WPEC
	120	22×30*	0.20	0.82	800	ZL475V121MCXS3WPEC
		22×35	0.20	0.86	800	ZL475V121MCXS4WPEC
	150	25×25	0.20	0.81	800	ZL475V121MCYS2WPEC
		22×35*	0.20	0.96	640	ZL475V151MCXS4WPEC
		25×30	0.20	0.96	640	ZL475V151MCYS3WPEC
	180	30×25	0.20	0.95	640	ZL475V151MCZS2WPEC
		22×40*	0.20	1.07	540	ZL475V181MCXS5WPEC
		22×45	0.20	1.14	540	ZL475V181MCXS6WPEC
	220	25×30*	0.20	1.02	540	ZL475V181MCYS3WPEC
		25×35	0.20	1.10	540	ZL475V181MCYS4WPEC
		30×25	0.20	1.04	540	ZL475V181MCZS2WPEC
		30×30	0.20	1.10	540	ZL475V181MCZS3WPEC
		35×25	0.20	1.01	540	ZL475V181MCAS2WPEC
	270	22×45*	0.20	1.22	440	ZL475V221MCXS6WPEC
		22×50	0.20	1.30	440	ZL475V221MCXS7WPEC
		25×35*	0.20	1.18	440	ZL475V221MCYS4WPEC
		25×40	0.20	1.27	440	ZL475V221MCYS5WPEC
		30×30	0.20	1.22	440	ZL475V221MCZS3WPEC
	330	35×25	0.20	1.12	440	ZL475V221MCAS2WPEC
		25×40*	0.20	1.36	360	ZL475V271MCYS5WPEC
		25×45	0.20	1.45	360	ZL475V271MCYS6WPEC
		30×30*	0.20	1.31	360	ZL475V271MCZS3WPEC
		30×35	0.20	1.41	360	ZL475V271MCZS4WPEC
	390	35×25*	0.20	1.28	360	ZL475V271MCAS2WPEC
		35×30	0.20	1.31	360	ZL475V271MCAS3WPEC
		25×50*	0.20	1.61	290	ZL475V331MCYS7WPEC
		25×55	0.20	1.71	290	ZL475V331MCYS8WPEC
		30×35*	0.20	1.51	290	ZL475V331MCZS4WPEC
	470	30×40	0.20	1.62	290	ZL475V331MCZS5WPEC
		35×30*	0.20	1.49	290	ZL475V331MCAS3WPEC
		35×35	0.20	1.51	290	ZL475V331MCAS4WPEC
		25×55*	0.20	1.80	250	ZL475V391MCYS8WPEC
	560	30×40*	0.20	1.71	250	ZL475V391MCZS5WPEC
		30×45	0.20	1.82	250	ZL475V391MCZS6WPEC
		35×35	0.20	1.64	250	ZL475V391MCAS4WPEC
	680	30×45*	0.20	1.94	210	ZL475V471MCZS6WPEC
		30×50	0.20	2.06	210	ZL475V471MCZS7WPEC
		35×35*	0.20	1.86	210	ZL475V471MCAS4WPEC
		35×40	0.20	1.87	210	ZL475V471MCAS5WPEC
	820	30×55*	0.20	2.25	180	ZL475V561MCZS8WPEC
		30×60	0.20	2.37	180	ZL475V561MCZS9WPEC
		35×40*	0.20	2.11	180	ZL475V561MCAS5WPEC
	820	35×45	0.20	2.11	180	ZL475V561MCAS6WPEC
		35×50*	0.20	2.48	150	ZL475V681MCAS7WPEC
820	35×55	0.20	2.45	150	ZL475V681MCAS8WPEC	
	35×55*	0.20	2.80	120	ZL475V821MCAS8WPEC	

Rated Voltage (V. DC)	Capacitance (μF)	Case size φD×L (mm)	tanδ 20°C, 120Hz	Ripple current (Arms) 105°C, 120Hz	ESR(typ.) (mΩ) 20°C, 100Hz	Product name
500	82	22×25*	0.20	0.50	1,170	ZL2H820MCXS2WPEC
		22×30	0.20	0.53	1,170	ZL2H820MCXS3WPEC
	100	22×30*	0.20	0.59	960	ZL2H101MCXS3WPEC
		25×25	0.20	0.61	960	ZL2H101MCYS2WPEC
	120	22×35	0.20	0.69	800	ZL2H121MCXS4WPEC
		25×30	0.20	0.71	800	ZL2H121MCYS3WPEC
	150	22×40*	0.20	0.82	640	ZL2H151MCXS5WPEC
		22×45	0.20	0.85	640	ZL2H151MCXS6WPEC
		25×35	0.20	0.84	640	ZL2H151MCYS4WPEC
		30×25	0.20	0.85	640	ZL2H151MCZS2WPEC
	180	22×45*	0.20	0.94	540	ZL2H181MCXS6WPEC
		22×50	0.20	0.97	540	ZL2H181MCXS7WPEC
		25×35*	0.20	0.94	540	ZL2H181MCYS4WPEC
		25×40	0.20	0.98	540	ZL2H181MCYS5WPEC
		30×30	0.20	0.99	540	ZL2H181MCZS3WPEC
	220	35×25	0.20	1.04	540	ZL2H181MCAS2WPEC
		25×45	0.20	1.13	440	ZL2H221MCYS6WPEC
		30×30*	0.20	1.11	440	ZL2H221MCZS3WPEC
		30×35	0.20	1.17	440	ZL2H221MCZS4WPEC
		35×25*	0.20	1.16	440	ZL2H221MCAS2WPEC
	270	35×30	0.20	1.22	440	ZL2H221MCAS3WPEC
		25×50*	0.20	1.31	360	ZL2H271MCYS7WPEC
		30×35*	0.20	1.31	360	ZL2H271MCZS4WPEC
		30×40	0.20	1.36	360	ZL2H271MCZS5WPEC
330	35×30*	0.20	1.37	360	ZL2H271MCAS3WPEC	
	30×45	0.20	1.58	290	ZL2H331MCZS6WPEC	
	35×35	0.20	1.61	290	ZL2H331MCAS4WPEC	
390	30×50*	0.20	1.79	250	ZL2H391MCZS7WPEC	
	30×55	0.20	1.84	250	ZL2H391MCZS8WPEC	
470	35×40	0.20	1.84	250	ZL2H391MCAS5WPEC	
	30×60*	0.20	2.10	210	ZL2H471MCZS9WPEC	
	35×45*	0.20	2.12	210	ZL2H471MCAS6WPEC	
560	35×50	0.20	2.18	210	ZL2H471MCAS7WPEC	
	35×50*	0.20	2.40	180	ZL2H561MCAS7WPEC	
680	35×55	0.20	2.47	180	ZL2H561MCAS8WPEC	
	35×60*	0.20	2.83	150	ZL2H681MCAS9WPEC	
550	82	30×25	0.25	0.59	2,920	ZL2L820MCZS2WPEC
		30×30	0.25	0.77	1,990	ZL2L121MCZS3WPEC
		35×25	0.25	0.80	1,990	ZL2L121MCAS2WPEC
	150	30×35	0.25	0.91	1,600	ZL2L151MCZS4WPEC
		35×30	0.25	0.96	1,600	ZL2L151MCAS3WPEC
	180	30×40	0.25	1.05	1,330	ZL2L181MCZS5WPEC
		35×35	0.25	1.11	1,330	ZL2L181MCAS4WPEC
	220	30×50	0.25	1.26	1,090	ZL2L221MCZS7WPEC
		35×40	0.25	1.29	1,090	ZL2L221MCAS5WPEC
	270	35×45	0.25	1.50	890	ZL2L271MCAS6WPEC
	330	35×50	0.25	1.73	730	ZL2L331MCAS7WPEC
	390	35×60	0.25	2.00	620	ZL2L391MCAS9WPEC

ALUMINUM ELECTROLYTIC CAPACITORS