G·LUXON

ALUMINUM ELECTROLYTIC CAPACITORS

LW Ultra Low ESR Series

■ Features: 105℃ 2000 hours ,Lower ESR and higher ripple current
■ Recommended Applications: Applicable for switching regulator of computer, especially for high frequency
■ Corresponding product to RoHS

LW
↑ Low E.S.R
LZ

■ Specifications

Item	Characteristics
Operating Temperature Range	-40 ~ +105℃
Rated Voltage Range	6.3 ~ 16VDC
Rated Capacitance Range	470 ~ 3300 μF
Capacitance Tolerance	± 20 % at 120Hz , 20℃
Leakage Current (MAX)(20℃)	I=0.03CV ,(After rated voltage applied for 2 minutes)
Dissipation Factor (MAX) (tan δ) (120Hz ,20℃)	WV: 6.3 / 10 / 16 tan δ: 0.22 / 0.19 / 0.16 When nominal capacitance is over 1000 μF, tan δ shall be added 0.02 to the listed value with increase of every 1000 μF.
Low Temperature Stability Impedance Ratio (MAX)	WV / Z(120Hz): 6.3 / 10 / 16 Z-25℃ / Z+20℃: 2 / 2 / 2 Z-40℃ / Z+20℃: 3 / 3 / 3
Endurance	After applying rated voltage with ripple current for 2000 hours at 105℃, the capacitors shall meet the following requirements. Capacitance Change: Within ± 25 % of initial value Dissipation Factor: Not more than 200% of specified value Leakage Current: Not more than the specified value
Shelf Life	After placed at 105℃ without voltage applied for 1000 hours, the capacitors shall meet the same requirement as Endurance.

■ Diagram of Dimensions

φD	8	10
P	3.5	5.0
φd	0.6	0.6
a	1.5	1.5

■ Multiplier for Ripple Current

Frequency coefficient

Frequency (Hz)	120	1K	10K	100K≦
Factor	0.5	0.8	0.9	1.0

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■Dimensions,Rated Ripple Current,Equivalent Series Resistance

Rated (Surge) Voltage 6.3V (8)			
CAP	D x L	Ripple Current	ESR
(μF)	(mm)	(mA/ rms 105℃ / 100KHz)	(mΩ Max 20℃ / 100KHz)
820	8 x 11	1036	43
1200	8 x 15	1355	34
1500	8 x 20	1740	25
	10 x 12.5	1400	31
1800	10 x 16	1818	23
2200	10 x 20	2318	15
3300	10 x 25	2364	14

Rated (Surge) Voltage 10V (13)			
CAP	D x L	Ripple Current	ESR
(μF)	(mm)	(mA/ rms 105℃ / 100KHz)	(mΩ Max 20℃ / 100KHz)
680	8 x 11	1036	43
1000	8 x 15	1355	34
	10 x 12.5	1400	31
1500	8 x 20	1700	25
	10 x 16	1818	23
1800	10 x 20	2318	16
2200	10 x 25	2545	14

Rated (Surge) Voltage 16V (20)			
CAP	D x L	Ripple Current	ESR
(μF)	(mm)	(mA/ rms 105℃ / 100KHz)	(mΩ Max 20℃ / 100KHz)
470	8 x 11	1036	43
680	8 x 15	1355	34
	10 x 12.5	1400	31
1000	8 x 20	1700	25
	10 x 16	1818	23
1500	10 x 20	2318	16
1800	10 x 25	2546	14

☆ Size: Dϕ x L (mm) ☆ Ripple Current: (mA/rms), 105℃,100KHz ☆ESR (Ω),20℃,100KHz