

RoHS Compliant ALUMINIUM ELECTROLYTIC CAPACITOR

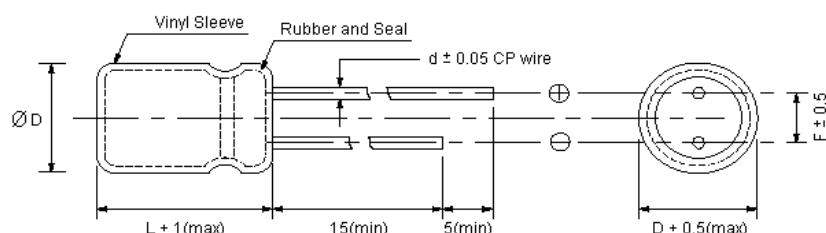
ZS Series

■ FEATURES

- ◆ High ripple current, low impedance series with 7mm height
- ◆ Load life of 1000 hours at 105°C



■ OUTLINE



	D	4	5	6.3	8
F	1.5	2.0	2.5	3.5	
d	0.45				0.50

■ SPECIFICATIONS

Items	Characteristics					
Capacitance Tolerance (120Hz, 25°C)	$\pm 20\%$ (M)					
Rated Working Voltage Range	6.3 ~ 50Vdc					
Operation Temperature	-40°C ~ +105°C					
Leakage Current (25°C)	(After 3 minutes applying the DC working voltage) $I \leq 0.01CV$ or 3 (μ A)					
	◆ I : Leakage Current (μ A)	◆ C : Rated Capacitance (μ F)	◆ V : Working Voltage (V)			
Surge Voltage (25°C)	W.V.	6.3	10	16	25	35
	S.V.	8	13	20	32	44
Dissipation Factor (120Hz, 25°C)	W.V.	6.3	10	16	25	35
	$\tan \delta$	0.22	0.19	0.16	0.14	0.12
Temperature Characteristics	W.V.	6.3	10	16	25	35
	- 25°C / + 25°C	3	3	3	2	2
	- 40°C / + 25°C	6	6	6	4	4
	◆ Impedance ratio at 120Hz					
Load Test	After 1000 hours application of WV at +105°C, the capacitor shall meet the following limits:					
	Capacitance Change	$\leq \pm 20\%$ of initial value				
	$\tan \delta$	$\leq 200\%$ of initial specified value				
	Leakage Current	\leq initial specified value				
Shelf Test	After 500 hours, no voltage applied at + 105°C for 500 hours, the capacitor shall meet the following limits:					
	Capacitance Change	$\leq \pm 20\%$ of initial value				
	$\tan \delta$	$\leq 200\%$ of initial specified value				
	Leakage Current	$\leq 200\%$ of initial specified value				



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■ DIMENSIONS

WV uF	D x L (mm)					
	6.3	10	16	25	35	
4.7]	4 x 7	
6.8]	4 x 7	
10]	4 x 7	5 x 7	
22]	4 x 7	5 x 7	5 x 7	6.3 x 7	
33	4 x 7	5 x 7	6.3 x 7	6.3 x 7	8 x 7	
47	5 x 7	5 x 7	6.3 x 7	8 x 7	8 x 7	
68	5 x 7	6.3 x 7	8 x 7	8 x 7		
100	6.3 x 7	8 x 7	8 x 7			
220	8 x 7					

RC: mA (rms) at 100KHz 105°C

Imp: Ω (ohm) at 100KHz 25°C

■ RIPPLE CURRENT & IMPEDANCE

WV uF	Item	6.3		10		16		25		35		
		R.C	Imp	RC	Imp	RC	Imp	RC	Imp	RC	Imp	
4.7								]	48	4.05		
6.8								]	65	3.39		
10						]	70	3.27	110	2.43		
22		]	60	2.13	85	1.76	105	1.73	130	1.26		
33		65	1.62	95	1.55	130	1.12	135	1.08	155	0.92	
47		100	1.45	110	1.02	140	0.85	160	0.8	165	0.74	
68		115	0.97	150	0.88	170	0.67	175	0.64			
100		155	0.8	185	0.63	190	0.6					
220		200	0.46									

■ RIPPLE CURRENT COEFFICIENTS

Temperature(°C)	45	65	85	105
Multiplier	2.40	2.15	1.70	1.00

Hz uF	60(50)	120	1K	10K	100K
	4.7 ~ 33	0.35	0.45	0.75	0.90
47 ~ 220	0.60	0.70	0.85	0.95	1.00