



DB ELECTRO
COMPOSANTS ÉLECTRONIQUES
ELECTRONIC COMPONENTS

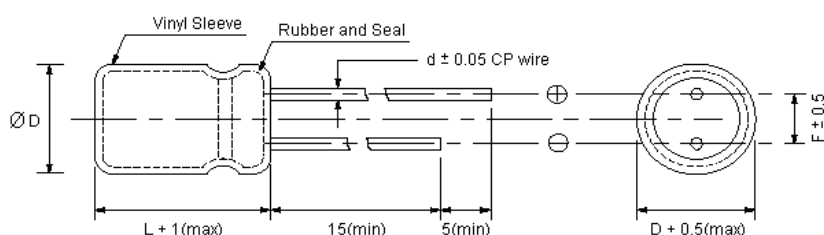
RoHS Compliant ALUMINIUM ELECTROLYTIC CAPACITOR

ZS Series

FEATURES

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

OUTLINE



	mm			
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)	± 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 ≤ 0.01CV or 3 (uA)						
	◆ I : Leakage Current (uA) ◆ C : Rated Capacitance (uF) ◆ 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 δ	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	≤ ± 20% of initial value					
	tan δ	≤ 200% of initial specified value					
	Leakage Current	≤ 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	≤ ± 20% of initial value					
	tan δ	≤ 200% of initial specified value					
	Leakage Current	≤ 200% of initial specified value					

DB LECTRO^U_Z

■ DIMENSIONS

D x L (mm)

uF \ WV	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

uF \ WV	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

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