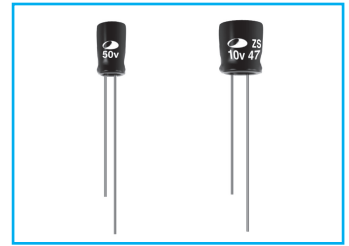


MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS



ZS High Ripple Current, Height 7mmL Series

M Miniaturized **S** Solvent Proof **IZI** Low Impedance

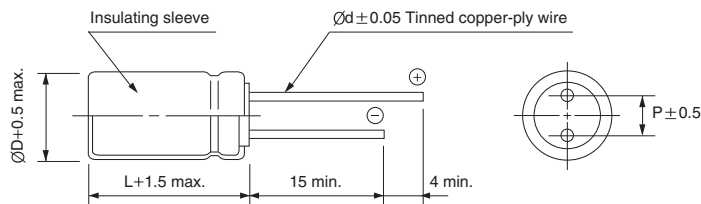


- Super miniature series with 7mmL height
- High ripple current compared with RK series
- Load life of 2000 hours at 105°C
- Complied to the RoHS directive

RK → **ZS**
High Ripple

Item	Characteristics
Operating temperature range	-40 ~ +105°C
Leakage current	I = 0.01CV or 3μA whichever is greater (after 2 minutes) I = 0.03CV or 4μA whichever is greater (after 1 minute)
Capacitance tolerance	±20% at 120Hz, 20°C
Dissipation factor max. (at 120Hz, 20°C)	WV 6.3 10 16 25 35 50
	tanδ 0.22 0.19 0.16 0.14 0.12 0.10
Low temperature characteristics (Impedance ratio at 120Hz)	WV 6.3 10 16 25 35 50
	Z-25°C / Z+20°C 2 2 2 2 2 2
	Z-40°C / Z+20°C 6 4 3 3 3 3
Load life	After an application of DC bias voltage plus the rated AC ripple current for 2000 hours at 105°C. The measurement shall meet the following limits. The DC voltage plus the peak AC voltage combined must not exceed the rated voltage.
	Leakage current Less than specified value
	Capacitance change Within ±25% of the initial value
	tanδ Less than 200% of the specified value
Shelf life (at 105°C)	After 1000 hours no load test, leakage current, capacitance and tanδ are same as load life value. The measurement shall be performed at 20°C by the KS C IEC 60384 - 4

● DRAWING



Unit : mm

ØD	5	6.3	8
P	2.0	2.5	3.5
Ød	0.5	0.5	0.5

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV Item μF	6.3			10			16			25			35			50		
	ØD×L (mm)	Imp.(Ω) max. 20°C 100kHz	Ripple current (mA rms) 105°C 100kHz	ØD×L (mm)	Imp.(Ω) max. 20°C 100kHz	Ripple current (mA rms) 105°C 100kHz	ØD×L (mm)	Imp.(Ω) max. 20°C 100kHz	Ripple current (mA rms) 105°C 100kHz	ØD×L (mm)	Imp.(Ω) max. 20°C 100kHz	Ripple current (mA rms) 105°C 100kHz	ØD×L (mm)	Imp.(Ω) max. 20°C 100kHz	Ripple current (mA rms) 105°C 100kHz	ØD×L (mm)	Imp.(Ω) max. 20°C 100kHz	Ripple current (mA rms) 105°C 100kHz
2.2															5×7	2.00	165	
4.7															5×7	2.00	165	
10															6.3×7	0.90	235	
22													5×7	1.40	165	6.3×7	0.90	260
33	5×7	1.40	165	5×7	1.40	165	5×7	1.40	165	5×7	1.40	165	6.3×7	0.70	235	8×7	0.50	350
47	5×7	1.40	165	5×7	1.40	165	5×7	1.40	165	6.3×7	0.70	235	8×7	0.34	350	8×7	0.50	450
68	6.3×7	0.70	235	6.3×7	0.70	235	6.3×7	0.70	235	6.3×7	0.70	235	8×7	0.34	350			
100	6.3×7	0.70	235	6.3×7	0.70	235	6.3×7	0.70	235	8×7	0.34	350						
150	6.3×7	0.70	235	6.3×7	0.70	235	8×7	0.34	350									
220	8×7	0.34	350	8×7	0.34	350												
330	8×7	0.34	350															

● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

μF	Frequency	120Hz	1kHz	10kHz	50kHz	100kHz ≤
~ 33		0.35	0.55	0.75	0.87	1.00
47 ~ 150		0.40	0.60	0.80	0.90	1.00
220 ~		0.50	0.65	0.85	0.92	1.00

MINIATURE TYPES