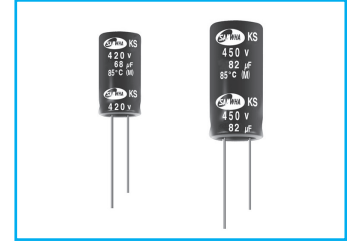


MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

KS For PSU, Long Life Series

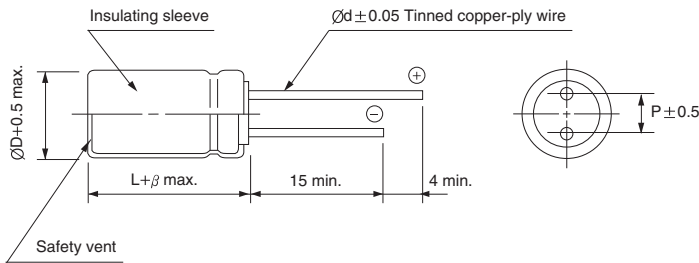
- High reliability withstanding 8000 hours load life at 85°C
- Suitable for CFL, adapter and power supply
- Complied to the RoHS directive



Item	Characteristics			
Operating temperature range	-25 ~ +85°C			
Leakage current max.	$I = 0.02CV + 25\mu A$ (after 5 minutes)			
Capacitance tolerance	±20% at 120Hz, 20°C			
Dissipation factor max. (at 120Hz, 20°C)	Rated Voltage(V)	420	450	500
	tanδ	0.2	0.2	0.2
Low temperature characteristics (Impedance ratio at 120Hz)	WV	420	450	500
	$Z(-25°C) / Z(+20°C)$	6	6	6
Load life (after application of the rated voltage for 8000 hours at 85°C)	Leakage current	Less than specified value		
	Capacitance change	Within ±20% of initial value		
	tanδ	Less than 200% of specified value		
Shelf life (at 85°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	16	18	20
P	7.5	7.5	10.0
Ød	0.8	0.8	0.8
β	L ≤ 40mm	2.0	-
	L > 40mm	3.0	

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

µF \ WV	420		450		500	
47					16 × 35.5	474
56					16 × 40	552
68	16 × 31.5	726	16 × 35.5	738	16 × 40	648
			18 × 31.5	738	18 × 40	
82	16 × 40	768	16 × 40	834	16 × 40	684
			18 × 31.5	834		
100	16 × 40	960	16 × 45	990	16 × 50	924
			18 × 35.5	990		
120	16 × 45	1122	16 × 50	1056	20 × 41	1035
150			18 × 45	1146		

↑ ↑
Ripple current (mA rms) at 85°C, 120Hz
Case size ØD × L (mm)

● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

WV \ Frequency	120Hz	1kHz	10kHz	50kHz, 100kHz
420 ~ 500V	1.00	1.40	1.50	2.00