

MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

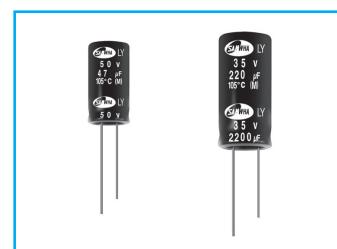
SAMWHA



Miniature, Long Life, For LED Lighting
Series



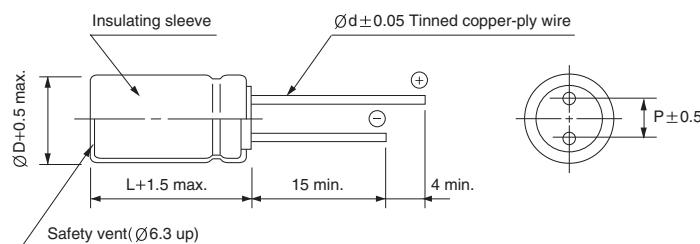
WF → LY
Long life



Item	Characteristics							
Operating temperature range	-25 ~ +105°C							
Leakage current max.	$I = 0.01CV$ or $3\mu A$ whichever is greater (after 2 minutes) $I = 0.03CV$ or $4\mu A$ whichever is greater (after 1 minute)							
Capacitance tolerance	$\pm 20\%$ at 120Hz, 20°C							
Dissipation factor max. (at 120Hz, 20°C)	WV	10	16	25	35	50	63	100
	$\tan\delta$	0.45	0.35	0.30	0.22	0.19	0.17	0.15
Low temperature characteristics (Impedance ratio at 120Hz)	WV	10	16	25	35	50	63	100
	Z-25°C/Z+20°C	8	6	4	4	3	4	4
Load life (after application of the rated voltage for 10000 hours at 105°C)	Leakage current	Less than specified value						
	Capacitance change	Within $\pm 25\%$ of the initial value						
	$\tan\delta$	Less than 200% of the specified value						
Shelf life (at 105°C)	After 1000 hours no load test, leakage current, capacitance and $\tan\delta$ 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	0.6

DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV Item μF	10		16		25		35		50		63		100	
	ØD × L (mm)	Ripple current (mA rms) 105°C 100kHz												
1.0									5 × 11	32				
2.2									5 × 11	42				
3.3									5 × 11	84				
4.7									5 × 11	96				
10									5 × 11	108			6.3 × 11	205
22									5 × 11	132	6.3 × 11	265	8 × 11.5	240
33				5 × 11	156	5 × 11	175	6.3 × 11	228	6.3 × 11	265	8 × 11.5	240	
47		5 × 11	175	5 × 11	175	6.3 × 11	252	6.3 × 11	228	8 × 11.5	270			
100	5 × 11	175	6.3 × 11	252	6.3 × 11	252	8 × 11.5	396	8 × 11.5	324				
220	6.3 × 11	252	8 × 11.5	396	8 × 11.5	396	8 × 15	430						
330	8 × 11.5	396	8 × 11.5	396										

FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

Frequency μF	120Hz	1kHz	10kHz	50kHz	100kHz
~ 33	0.42	0.70	0.90	0.95	1.00
47 ~	0.55	0.73	0.92	0.96	1.00