

MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS



Upgrade

LY

Miniature, Long Life, For LED Lighting Series

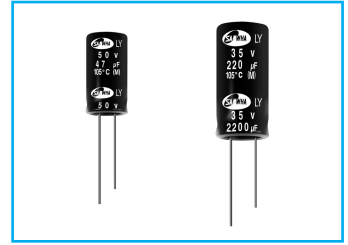
- Miniature, long life
- For LED Lighting
- High reliability withstanding 10000 hours load life at 105°C
- Complied to the RoHS directive



Long Life



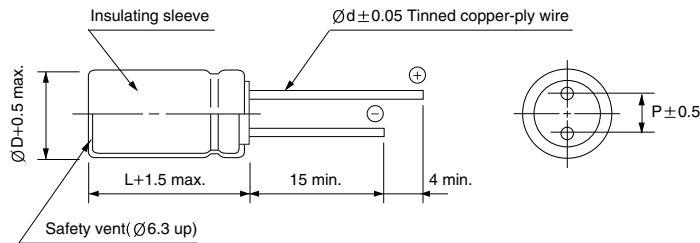
Solvent Proof



Item	Characteristics							
Operating temperature range	-25 ~ +105°C							
Leakage current max.	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	10	16	25	35	50	63	100
	tanδ	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 ±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	0.6

MINIATURE TYPES

FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

µF \ Frequency	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

MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

LY series

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV Item μF	10			16			25		
	$\varnothing D \times L$ (mm)	Impedance (Ω)max. 20°C 100kHz	Ripple current (mA rms) 105°C 100kHz	$\varnothing D \times L$ (mm)	Impedance (Ω)max. 20°C 100kHz	Ripple current (mA rms) 105°C 100kHz	$\varnothing D \times L$ (mm)	Impedance (Ω)max. 20°C 100kHz	Ripple current (mA rms) 105°C 100kHz
33							5 × 11	2.00	156
47				5 × 11	1.50	175	5 × 11	0.70	175
100	5 × 11	0.70	175	6.3 × 11	0.70	252	6.3 × 11	0.50	252
220	6.3 × 11	0.60	252	8 × 11.5	0.50	396	8 × 11.5	0.24	396
330	8 × 11.5	0.50	396	8 × 11.5	0.45	396			

WV Item μF	35			50			63		
	$\varnothing D \times L$ (mm)	Impedance (Ω)max. 20°C 100kHz	Ripple current (mA rms) 105°C 100kHz	$\varnothing D \times L$ (mm)	Impedance (Ω)max. 20°C 100kHz	Ripple current (mA rms) 105°C 100kHz	$\varnothing D \times L$ (mm)	Impedance (Ω)max. 20°C 100kHz	Ripple current (mA rms) 105°C 100kHz
1.0				5 × 11	4.00	32			
2.2				5 × 11	3.00	42			
3.3				5 × 11	2.50	84			
4.7				5 × 11	2.50	96			
10				5 × 11	2.00	108			
22				5 × 11	1.60	132	6.3 × 11	1.60	265
33	5 × 11	0.70	175	6.3 × 11	1.60	228	6.3 × 11	1.60	265
47	6.3 × 11	0.60	252	6.3 × 11	0.80	228	8 × 11.5	0.35	270
100	8 × 11.5	0.40	396	8 × 11.5	0.50	324			
220	8 × 15	0.35	430						

WV Item μF	100		
	$\varnothing D \times L$ (mm)	Impedance (Ω)max. 20°C 100kHz	Ripple current (mA rms) 105°C 100kHz
33	6.3 × 11	1.60	205
47	8 × 11.5	1.60	240
100	8 × 11.5	0.35	240