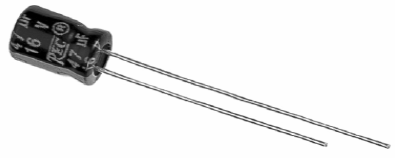
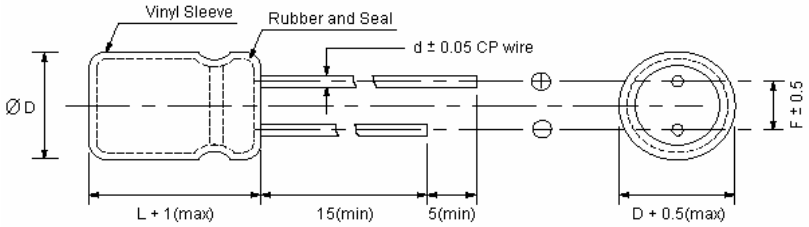
RoHS Compliant ALUMINIUM ELECTROLYTIC CAPACITOR — GW Series

■ FEATURES

◆Wide temperature range series with 5mm height
◆Load life of 1000 hours at 105°C



■ OUTLINE



mm

D	4	5	6.3
F	1.5	2.0	2.5
d	0.45		

■ SPECIFICATIONS

Items	Characteristics							
Capacitance Tolerance (120Hz, 25°C)	± 20% (M)							
Rated Working Voltage Range	4 ~ 50VDC							
Operation Temperature	-40°C ~ +105°C							
Leakage Current (25°C)	(After 3 minutes applying the DC working voltage)							
	I ≤ 0.01CV or 3 (*u* A)							
	◆I : Leakage Current (*u* A) ◆C : Rated Capacitance (*u* F) ◆V : Working Voltage (V)							
Surge Voltage (25°C)	**W.V.**	**4**	**6.3**	**10**	**16**	**25**	**35**	**50**
	S.V.	5	8	13	20	32	44	63
Dissipation Factor (120Hz, 25°C)	**W.V.**	**4**	**6.3**	**10**	**16**	**25**	**35**	**50**
	tan *d*	0.37	0.28	0.24	0.20	0.16	0.14	0.12
Temperature Characteristics	**W.V.**	**4**	**6.3**	**10**	**16**	**25**	**35**	**50**
	- 25°C / + 25°C	6	3	3	2	2	2	2
	- 40°C / + 25°C	12	8	5	4	3	3	3
	◆Impedance ratio at 120Hz							
Load Test	After 1000 hours application of WV at +105°C, the capacitor shall meet the following limits:							
	Capacitance Change	≤ ± 25% of initial value						
	tan *d*	≤ 200% of initial specified value						
	Leakage Current	≤ initial specified value						
Shelf Test	After 500 hours, no voltage applied at +105°C, the capacitor shall meet the following limits.							
	Capacitance Change	≤ ± 25% of initial value						
	tan *d*	≤ 200% of initial specified value						
	Leakage Current	≤ 200% of initial specified value						

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■ **DIMENSIONS** D x L (mm)

WV / uF	4	6.3	10	16	25	35	50
0.1						⇨	3 x 5
0.22						⇨	3 x 5
0.33						⇨	3 x 5
0.47						⇨	4 x 5
1						⇨	4 x 5
2.2					⇨	4 x 5	4 x 5
3.3					⇨	4 x 5	4 x 5
4.7				⇨	4 x 5	4 x 5	5 x 5
10			⇨	4 x 5	5 x 5	5 x 5	6.3 x 5
22	4 x 5	4 x 5	5 x 5	5 x 5	6.3 x 5	6.3 x 5	
33	5 x 5	5 x 5	5 x 5	6.3 x 5	6.3 x 5		
47	5 x 5	5 x 5	6.3 x 5	6.3 x 5			
100	6.3 x 5	6.3 x 5					

■ **PERMISSIBLE RIPPLE CURRENT** mA (rms) at 120Hz 105°C

WV / uF	4	6.3	10	16	25	35	50
0.1						⇨	1
0.22						⇨	2
0.33						⇨	3
0.47						⇨	5
1						⇨	6
2.2					⇨	10	12
3.3					⇨	13	14
4.7				⇨	14	16	19
10			⇨	17	23	26	30
22	20	20	27	31	37	44	
33	29	30	35	40	46		
47	33	38	48	50			
100	57	63					