



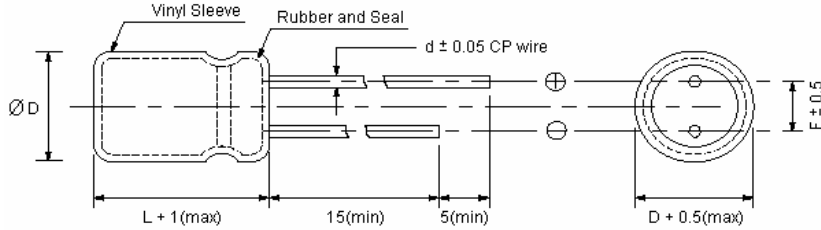
RoHS Compliant ALUMINIUM ELECTROLYTIC CAPACITOR **GN Series**

■ **FEATURES**

Non polarity series with 5mm height
 Load life of 1000 hours at 85°C
 Applications for use in circuits which has a reversed or unknown polarity



■ **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	6.3 ~ 50VDC							
Operation Temperature	-40°C ~ +85°C							
Leakage Current (25°C)	(After 2 minutes applying the DC working voltage)							
	$I \leq 0.05CV$ or 10 (μ A)							
	I : Leakage Current (μ A)	C : Rated Capacitance (μ F)			V : Working Voltage (V)			
Surge Voltage (25°C)	W.V.	6.3	10	16	25	35	50	
	S.V.	8	13	20	32	44	63	
Dissipation Factor (120Hz, 25°C)	W.V.	6.3	10	16	25	35	50	
	tan d	0.25	0.20	0.17	0.17	0.15	0.15	
Temperature Characteristics	W.V.	6.3	10	16	25	35	50	
	- 25°C / + 25°C	4	3	2	2	2	2	
	- 40°C / + 25°C	8	6	4	4	3	3	
Load Test	Impedance ratio at 120Hz							
	After 1000 hours application of WV at +85°C, the capacitor shall meet the following limits, each polarity for 500 hours.							
	Capacitance Change	$\leq \pm 20\%$ of initial value						
	tan d	$\leq 200\%$ of initial specified value						
	Leakage Current	\leq initial specified value						
Shelf Test	After 500 hours, no voltage applied at + 85°C, the capacitor shall meet the following limits.							
	Capacitance Change	$\leq \pm 20\%$ of initial value						
	tan d	$\leq 200\%$ of initial specified value						
	Leakage Current	$\leq 200\%$ of initial specified value						



■ DIMENSIONS

D x L (mm)

uF \ WV	6.3	10	16	25	35	50
0.1					⇒	4 x 5
0.22					⇒	4 x 5
0.33					⇒	4 x 5
0.47					⇒	4 x 5
1					⇒	4 x 5
2.2				⇒	4 x 5	5 x 5
3.3		⇒	4 x 5	5 x 5	5 x 5	5 x 5
4.7		⇒	4 x 5	5 x 5	5 x 5	6.3 x 5
10	4 x 5	4 x 5	5 x 5	6.3 x 5	6.3 x 5	
22	5 x 5	6.3 x 5	6.3 x 5			
33	6.3 x 5	6.3 x 5	6.3 x 5			
47	6.3 x 5					

■ PERMISSIBLE RIPPLE CURRENT

mA (rms) at 120Hz 85°C

uF \ WV	6.3	10	16	25	35	50
0.1					⇒	1
0.22					⇒	2
0.33					⇒	3
0.47					⇒	4
1					⇒	8
2.2				⇒	8	13
3.3		⇒	10	13	15	16
4.7		⇒	12	16	17	20
10	15	17	22	26	29	
22	27	33	37			
33	37	40	49			
47	45					