



RoHS Compliant ALUMINIUM ELECTROLYTIC CAPACITOR

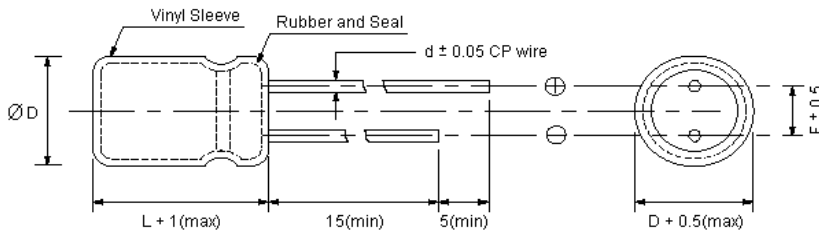
NS Series

■ **FEATURES**

- ◆ Non polarity series with 7mm height
- ◆ Load life of 1000 hours at 85°C
- ◆ Applications for use in circuits which has a reversed unknown polarity



■ **OUTLINE**



mm				
D	4	5	6.3	8
F	1.5	2.0	2.5	3.5
d	0.45		0.50	

■ **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	
	$\tan \delta$	0.24	0.20	0.17	0.15	0.12	0.12	
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	10	8	6	4	3	3	
◆ Impedance ratio at 120Hz								
Load Test	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						
	$\tan \delta$	$\leq 200\%$ 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						
	$\tan \delta$	$\leq 200\%$ of initial specified value						
	Leakage Current	$\leq 200\%$ of initial specified value						



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■ **DIMENSIONS**

		D x L (mm)				
uF \ WV	6.3	10	16	25	35	50
	0.1]
0.22]	4 x 7
0.33]	4 x 7
0.47]	4 x 7
1]	4 x 7
2.2]	4 x 7	5 x 7
3.3			]	4 x 7	5 x 7	5 x 7
4.7		]	4 x 7	5 x 7	5 x 7	6.3 x 7
10	]	4 x 7	5 x 7	6.3 x 7	6.3 x 7	8 x 7
22	5 x 7	5 x 7	6.3 x 7	6.3 x 7	8 x 7	8 x 7
33	5 x 7	5 x 7	6.3 x 7	8 x 7	8 x 7	
47	6.3 x 7	6.3 x 7	6.3 x 7	8 x 7		
100	8 x 7	8 x 7	8 x 7			

■ **PERMISSIBLE RIPPLE CURRENT**

		mA (rms) at 120Hz 85°C				
uF \ WV	6.3	10	16	25	35	50
	0.1]
0.22					]	3
0.33					]	4
0.47					]	6
1					]	10
2.2				]	14	15
3.3			]	15	18	20
4.7		]	18	21	23	26
10	]	24	29	34	38	44
22	32	39	49	52	62	63
33	41	55	62	70	75	
47	58	65	73	85		
100	96	107	120			