



**RoHS Compliant ALUMINIUM ELECTROLYTIC CAPACITOR**

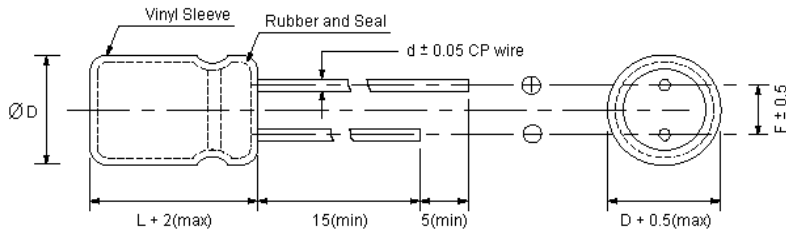
**SM Series**



■ **FEATURES**

- ◆ Miniaturized low profile with 9mm to 25mm height
- ◆ Load life of 2000 hours at 85°C

■ **OUTLINE**



	mm						
D	5	6.3	8	10	13	16	18
F	2.0	2.5	3.5	5.0	7.5		
d	0.5			0.6	0.8		

■ **SPECIFICATIONS**

Items	Characteristics												
Capacitance Tolerance (120Hz, 25°C)	± 20% (M)												
Rated Working Voltage Range	6.3 ~ 250Vdc						350 ~ 450Vdc						
Operation Temperature	-40°C ~ +85°C						-25°C ~ +85°C						
Leakage Current (25°C)	(After 2 minutes applying the DC working voltage)						(After 1 minute applying the DC working voltage)						
	$I \leq 0.01CV$ or 3 ( $\mu A$ )						$I \leq 0.04CV + 100$ ( $\mu A$ )						
◆ I : Leakage Current ( $\mu A$ )      ◆ C : Rated Capacitance ( $\mu F$ )      ◆ V : Working Voltage (V)													
Surge Voltage (25°C)	W.V.	6.3	10	16	25	35	50	160	200	250	350	400	450
	S.V.	8	13	20	32	44	63	200	250	300	400	450	500
Dissipation Factor (120Hz, 25°C)	W.V.	6.3	10	16	25	35	50	160	200	250	350	400	450
	$\tan \delta$	0.28	0.24	0.20	0.16	0.14	0.12	0.15	0.15	0.15	0.20	0.24	0.24
◆ For capacitance exceeding 1000 $\mu F$ , add 0.02 per increment of 1000 $\mu F$													
Temperature Characteristics	W.V.	6.3	10	16	25	35	50	160	200	250	350	400	450
	- 25°C / + 25°C	5	4	3	2	2	2	3	3	3	6	6	6
	- 40°C / + 25°C	12	10	8	5	4	3	6	6	6	-	-	-
◆ Impedance ratio at 120Hz													
Load Test	After 2000 hours application of WV at +85°C, the capacitor shall meet the following limits: (1000 hours for 8 $\phi$ and smaller)												
	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 1000 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											

