



# SMD Aluminum Electrolytic Capacitors



## Features

- D4 - ~ 18 - , 105 ℃, 2,000 hours assured
- DDesigned for surface mounting on high density PC board
- DRoHS Compliance



Marking color: Black

## Specifications

Items	Performance												
Category Temperature Range	6.3 ~ 100V	160 ~ 400V											
	-55 ℃ ~ +105 ℃	-40 ℃ ~ +105 ℃											
Capacitance Tolerance	±20% (at 120Hz, 20 ℃)												
Leakage Current (at 20 ℃)	Rated voltage	6.3 ~ 100V	160 ~ 450V										
	Time	after 2 minutes	after 5 minutes										
	Case size	4 ~ 10 -	12.5 ~ 18 -	12.5 ~ 18 -									
	Leakage Current	I = 0.01CV or 3μA, whichever is greater	I = 0.03CV or 4μA, whichever is greater	I = 0.04CV + 100μA									
Where, C = rated capacitance in μF V = rated DC working voltage in V													
Dissipation Factor (Tan at 120Hz, 20 ℃)	Rated Voltage	6.3	10	16	25	35	50	63	100	160 ~ 250	400 ~ 450		
	4 ~ 10 -	0.45	0.35	0.28	0.18	0.16	0.14	0.12	0.12	-	-		
	12.5 ~ 18 -	0.40	0.38	0.34	0.26	0.22	0.18	0.14	0.10	0.20	0.25		
When the capacitance exceeds 1,000μF, 0.02 shall be added every 1,000μF increase.													
Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below.												
	Impedance Ratio	Rated Voltage		6.3	10	16	25	35	50	63	100	160 ~ 250	400 ~ 450
		Z(-25 ℃)	- DpE12.5	4	4	3	2	2	2	2	3	-	-
		/Z(+20 ℃)	- D • 12.5	5	4	3	2	2	2	2	2	3	6
		Z(-55/-40 ℃)	- DpE12.5	12	8	6	4	3	3	3	3	4	-
/Z(+20 ℃)	- D • 12.5	10	8	6	4	3	3	3	3	3	6	10	
Endurance	Test Time	2,000 Hrs											
	Capacitance Change	Within ±25% of initial value for - D € 6.3mm; Within ±20% of initial value for - D • 8mm											

