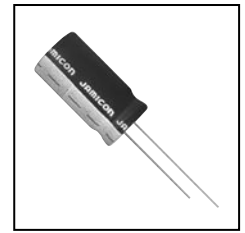


- Highly dependable reliability withstanding load life of 5,000 to 15,000 hours at 105°C.
- Suited for automobile electronics where heavy duty services are indispensable.

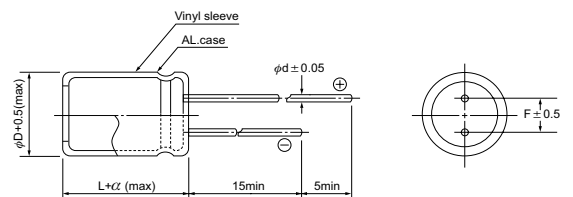


## ● SPECIFICATION

Item	Characteristic								
Operation Temperature Range	-55 ~ +105°C								
Rated Working Voltage	10 ~ 100V								
Capacitance Tolerance (120Hz 20°C)	±20%(M)								
Leakage Current (20°C)	$I \leq 0.03CV$ or $3 \mu A$								
	*Whichever is greater after 2 minutes								
Dissipation Factor (tan $\delta$ ) (120Hz 20°C)	For capacitance of more than 1000 $\mu F$ , add 0.02 for every increase of 1000 $\mu F$ .								
	W.V.	10	16	25	35	50	63	100	
	tan $\delta$	0.20	0.16	0.14	0.12	0.10	0.09	0.08	
Measurement frequency : 120Hz, Temperature : 20°C									
Low Temperature Stability	Impedance ratio at 120Hz								
	Rated voltage (V)	10	16	25	35	50	63	100	
	-25°C / +20°C	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	-40°C / +20°C	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Load Life	After an application of D.C. bias voltage plus the rated ripple current for less than $\phi D=5mm$ 5,000 hours, $\phi D=6.3mm$ 6,000 hours, $\phi D=8mm$ 7,000 hours, $\phi D=10mm$ & 12.5mm 10,000 hours, $\phi D \geq 16mm$ 15,000 hours at 105°C, the capacitors meet the following limits								
	Capacitance Change	$\leq \pm 30\%$ of initial value							
	Dissipation Factor	$\leq 200\%$ of initial specified value							
	Leakage current	$\leq$ initial specified value or less							
Shelf Life	After leaving capacitors under no load at 105°C for 1000 hours, they meet the requirements for endurance characteristics listed above.								

## ● DIMENSIONS (mm)

$\phi D$	5	6.3	8	10	12.5	16	18
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
d	0.5	0.5	0.6	0.6	0.6	0.8	0.8
$\alpha$	1.5	1.5	1.5	1.5	1.5	1.5	1.5



## ● RIPPLE CURRENT COEFFICIENTS

Frequency(Hz)	120	300	1k	100k
Cap( $\mu F$ )	Multiplier			
CV < 1000	0.50	0.64	0.83	1.00
CV $\geq$ 1000	0.67	1.00	0.91	1.00



