



Clean energy devices to sustain  
the next generation

# ELECTRIC DOUBLE LAYER CAPACITOR

## Features

Miniaturized / Large capacitance

RoHS compliant

Capability of charge and discharge at large current

Prolonged charge and discharge cycle life

Environment friendly without containing heavy metals

**Applications** Memory back up / Motor starting / Small UPS /  
LED driver storing solar cell energy / Energy restoration-Power assist

**Rubycon**

## Listen to the Heartbeat of the new generation

Utilizing energy more efficiently

Rubycon's EDLC have begun to draw attention as a leader in mass energy storage for next generation designs. Equipped with rapid charge/discharge capabilities and long life cycle, Rubycon's EDLC capacitors take the lead in output energy density among its peers. Maintenance-free operation characterize the "DMA and DMB" series which are now available.

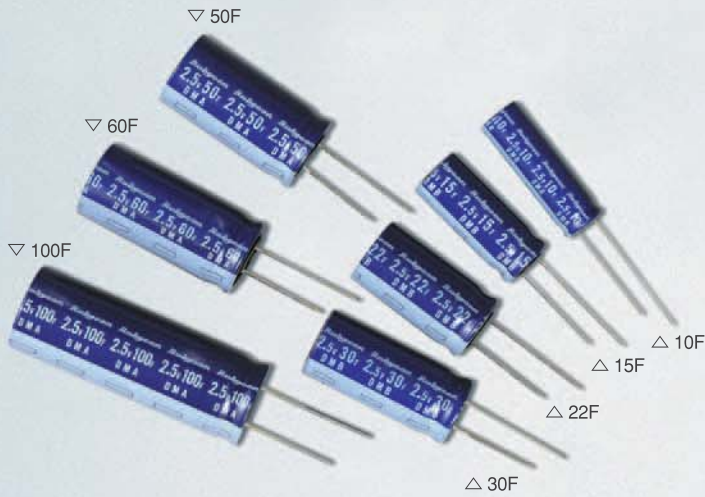
# ELECTRIC DOUBLE LAYER CAPACITOR

### DMA Series

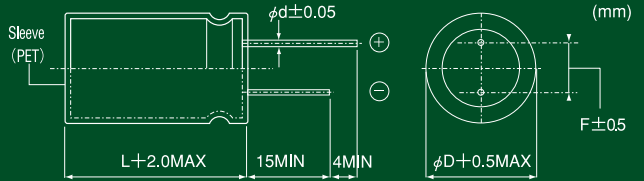
Rated Voltage (V.DC)	Rated Capacitance (F)	Internal Resistance ( $\Omega$ ) at 1kHz	Dimensions (mm)
2.5	50	$\leq 0.1$	18×35.5
	60		18×40
	100		20×55

### DMB Series

Rated Voltage (V.DC)	Rated Capacitance (F)	Internal Resistance ( $\Omega$ ) at 1kHz	Dimensions (mm)
2.5	10	$\leq 0.1$	10×35
	15		12.5×30
	22		16×30
	30		16×35.5
	50		18×50
	70		20×55
	100		22×65



### Dimensions



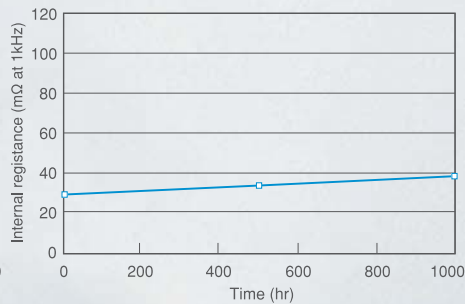
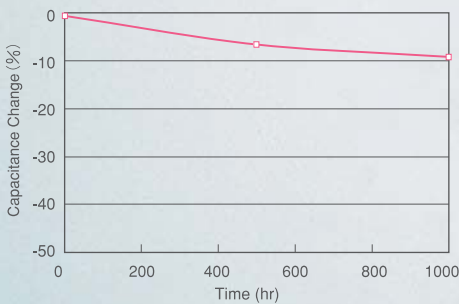
$\phi D$	10.0	12.5	16.0	18.0	20.0	22.0
F	5.0	5.0	7.5	7.5	10.0	10.0
$\phi d$	0.6	0.6	0.8	0.8	1.0	1.0

### Specifications

Series	DMA	DMB
Category	-25~+60°C	
Temperature Range	-25~+70°C	
Rated Voltage	2.5V.DC	
Rated Capacitance Range	50~100F	10~100F
Tolerance on Rated Capacitance	$\pm 20\%$	
Characteristics at High and Low Temperature	Capacitance Change	$ \Delta C/C(+20^\circ C)  \leq 30\%$
	Internal Resistance	Max. 4 times of the value at +20°C (at -25°C)
Endurance	After 1000 hours with rated voltage applied at upper category temperature, the capacitors shall meet the following requirements.	
	Capacitance Change	$ \Delta C/C(\text{initial})  \leq 30\%$
	Internal Resistance	Max. 3 times of the specification
Storage at High Temperature	After 1000 hours without load at upper category temperature, the capacitors shall meet the same requirements specified for endurance.	

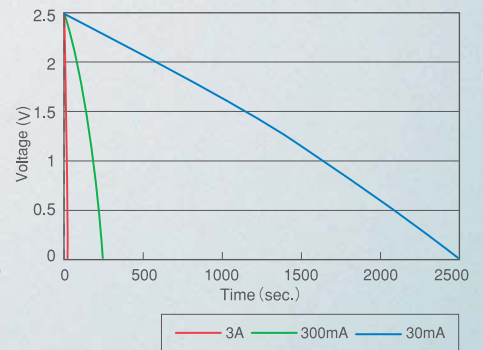
### Load life characteristics

DMB 2.5V 30F  $\phi 16 \times L35.5\text{mm}$  at 70°C 2.5V applied



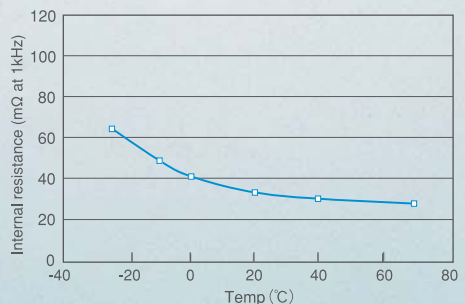
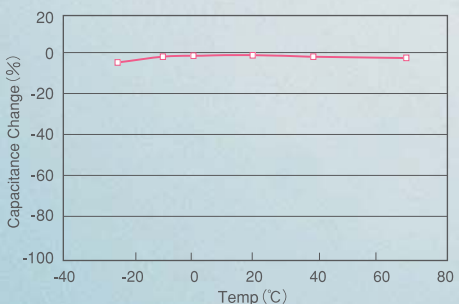
### Constant current discharge characteristics

DMB 2.5V 30F  $\phi 16 \times L35.5\text{mm}$



### Temperature characteristics

DMB 2.5V 30F  $\phi 16 \times L35.5\text{mm}$  at -25°C to +70°C



※The specification might change without a previous notice.