

# MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

Long life for  $\phi 5$  to  $\phi 8$  product, 105°C

## Series

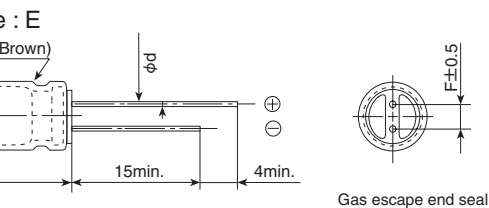
Long life products  
 Long life  
 Ripple current : 10,000 hours at 105°C  
 Size :  $\phi 5 \times 11L$  to  $\phi 8 \times 11.5L$   
 Mounting type (see PRECAUTIONS AND GUIDELINES)  
 Mount



## PRECAUTION

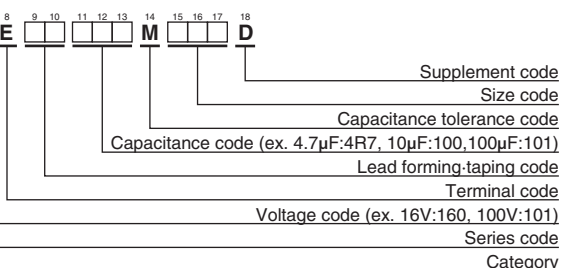
Characteristics																	
Temperature range	-40 to +105°C																
Rated voltage	10 to 100V <sub>dc</sub>																
Capacitance tolerance	±20% (M) (at 20°C, 120Hz)																
Leakage current	I=0.01CV or 3μA, whichever is greater. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 2 minutes)																
tan δ (Max.)	<table border="1"> <tr> <td>Rated voltage (V<sub>dc</sub>)</td> <td>10V</td> <td>16V</td> <td>25V</td> <td>35V</td> <td>50V</td> <td>63V</td> <td>100V</td> </tr> <tr> <td>tan δ (Max.)</td> <td>0.45</td> <td>0.35</td> <td>0.30</td> <td>0.22</td> <td>0.19</td> <td>0.17</td> <td>0.15</td> </tr> </table> (at 20°C, 120Hz)	Rated voltage (V <sub>dc</sub> )	10V	16V	25V	35V	50V	63V	100V	tan δ (Max.)	0.45	0.35	0.30	0.22	0.19	0.17	0.15
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Reliability	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage) for 10,000 hours at 105°C. <table border="1"> <tr> <td>Capacitance change</td> <td>≤ ±25% of the initial value</td> </tr> <tr> <td>D.F. (tan δ)</td> <td>≤ 300% of the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>≤ The initial specified value</td> </tr> </table>	Capacitance change	≤ ±25% of the initial value	D.F. (tan δ)	≤ 300% of the initial specified value	Leakage current	≤ The initial specified value										
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Reliability	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4. <table border="1"> <tr> <td>Capacitance change</td> <td>≤ ±25% of the initial value</td> </tr> <tr> <td>D.F. (tan δ)</td> <td>≤ 300% of the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>≤ The initial specified value</td> </tr> </table>	Capacitance change	≤ ±25% of the initial value	D.F. (tan δ)	≤ 300% of the initial specified value	Leakage current	≤ The initial specified value										
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## Dimensions [mm]



φD	5	6.3	8
φd	0.5	0.5	0.6
F	2.0	2.5	3.5
φD'	φD+0.5max.		
L'	L+1.5max.		

## MARKING SYSTEM



Product code guide (radial lead type)"

# MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

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## PERFORMANCE RATINGS

Case size $\phi D \times L$ (mm)	$\tan \delta$	Rated ripple current (mA <sub>rms</sub> /105°C, 100kHz)	Part No.
5 × 11	0.45	130	ELE-100E□□101ME11D
6.3 × 11	0.45	210	ELE-100E□□221MF11D
8 × 11.5	0.45	330	ELE-100E□□331MHB5D
5 × 11	0.35	130	ELE-160E□□470ME11D
6.3 × 11	0.35	210	ELE-160E□□101MF11D
8 × 11.5	0.35	330	ELE-160E□□221MHB5D
5 × 11	0.30	130	ELE-250E□□330ME11D
5 × 11	0.30	130	ELE-250E□□470ME11D
6.3 × 11	0.30	210	ELE-250E□□101MF11D
5 × 11	0.22	130	ELE-350E□□330ME11D
6.3 × 11	0.22	210	ELE-350E□□470MF11D
8 × 11.5	0.22	330	ELE-350E□□101MHB5D
5 × 11	0.19	25	ELE-500E□□1R0ME11D
5 × 11	0.19	35	ELE-500E□□2R2ME11D
5 × 11	0.19	70	ELE-500E□□3R3ME11D
5 × 11	0.19	80	ELE-500E□□4R7ME11D
5 × 11	0.19	90	ELE-500E□□100ME11D
5 × 11	0.19	110	ELE-500E□□220ME11D
6.3 × 11	0.19	190	ELE-500E□□330MF11D
6.3 × 11	0.19	190	ELE-500E□□470MF11D
8 × 11.5	0.19	270	ELE-500E□□101MHB5D
5 × 11	0.17	80	ELE-630E□□100ME11D
6.3 × 11	0.17	170	ELE-630E□□220MF11D
6.3 × 11	0.17	170	ELE-630E□□330MF11D
8 × 11.5	0.17	240	ELE-630E□□470MHB5D
5 × 11	0.15	40	ELE-101E□□1R0ME11D
5 × 11	0.15	50	ELE-101E□□2R2ME11D
5 × 11	0.15	60	ELE-101E□□3R3ME11D
5 × 11	0.15	70	ELE-101E□□4R7ME11D
6.3 × 11	0.15	150	ELE-101E□□100MF11D
8 × 11.5	0.15	230	ELE-101E□□220MHB5D

Appropriate lead forming or taping code.

## TEMPERATURE MULTIPLIERS

Multipliers

120	1k	10k	100k
0.42	0.60	0.80	1.00
0.55	0.75	0.90	1.00
0.70	0.85	0.95	1.00

The lifetime of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. In actual use, the rms ripple current has to be reduced.

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[107CKR010M](#) [107CKH063MSA](#) [RJH-25V222MI9#](#) [RJH-35V221MG5#](#) [B43827A1106M8](#) [RJH-50V221MH6#](#) [EKYA500ELL470MF11D](#)  
[B41022A5686M6](#) [ESRG250ELL101MH09D](#) [EKMA160EC3101MF07D](#) [RJB-10V471MG3#](#) [ESMG160ETD221MF11D](#)  
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