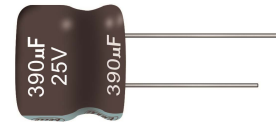


ALUMINUM ELECTROLYTIC CAPACITORS



EH Series

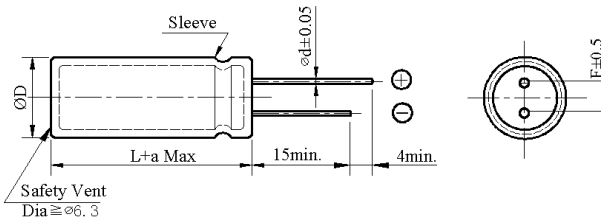
- Low impedance and High ripple current.
- Load life 3,000~4,000 hours at 105°C



◆ SPECIFICATIONS

Item	Performance Characteristics												
Category Temperature Range	-55~+105°C												
Working Voltage Range	10 ~ 35Vdc												
Capacitance Range	150 ~820 µF												
Capacitance Tolerance	±20% (at 25°C and 120Hz)												
Dissipation Factor (tanδ) (at 25°C, 120Hz)	<table border="1"> <tr> <td>Rated Voltage (V)</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> </tr> <tr> <td>tanδ(Max)</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> </tr> </table>	Rated Voltage (V)	10	16	25	35	tanδ(Max)	0.19	0.16	0.14	0.12		
	Rated Voltage (V)	10	16	25	35								
tanδ(Max)	0.19	0.16	0.14	0.12									
The above values should be increased by 0.02 for every additional 1000µF													
Leakage Current	$I=0.01CV$ or $3\mu A$ whichever is greater I : Leakage current (µA) C : Rated capacitance (µF) V : Rated voltage (V) Impress the rated voltage for 2 minutes												
Low Temperature Characteristics Impedance Ratio(MAX)	<table border="1"> <tr> <td>Rated voltage (V)</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> </tr> <tr> <td>Z(-55°C)/Z(+20°C)</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table>	Rated voltage (V)	10	16	25	35	Z(-55°C)/Z(+20°C)	3	3	3	3		
	Rated voltage (V)	10	16	25	35								
Z(-55°C)/Z(+20°C)	3	3	3	3									
(at 120Hz)													
Endurance	The following requirements shall be satisfied when the capacitor are restored to 25°C after the rated voltage applied for 3,000 to 4,000 hours at 105°C.												
	<table border="1"> <tr> <td>Capacitance change</td> <td>≧ ±25% of the initial value</td> <td>Size</td> <td>Life time (hours)</td> </tr> <tr> <td>Dissipation factor(tanδ)</td> <td>≧ 200% of the specified value</td> <td>10Φ</td> <td>3,000</td> </tr> <tr> <td>Leakage current</td> <td>≧ specified value</td> <td>12.5Φ</td> <td>4,000</td> </tr> </table>	Capacitance change	≧ ±25% of the initial value	Size	Life time (hours)	Dissipation factor(tanδ)	≧ 200% of the specified value	10Φ	3,000	Leakage current	≧ specified value	12.5Φ	4,000
	Capacitance change	≧ ±25% of the initial value	Size	Life time (hours)									
	Dissipation factor(tanδ)	≧ 200% of the specified value	10Φ	3,000									
Leakage current	≧ specified value	12.5Φ	4,000										
Shelf Life	The following requirements shall be satisfied when the capacitor are restored to 25°C after exposing them for 1,000 hours at 105°C without voltage applied.												
	<table border="1"> <tr> <td>Capacitance change</td> <td>≧ ±25% of the initial value</td> </tr> <tr> <td>Dissipation factor(tanδ)</td> <td>≧ 200% of the specified value</td> </tr> <tr> <td>Leakage current</td> <td>≧ 200% of the specified value</td> </tr> </table>	Capacitance change	≧ ±25% of the initial value	Dissipation factor(tanδ)	≧ 200% of the specified value	Leakage current	≧ 200% of the specified value						
	Capacitance change	≧ ±25% of the initial value											
	Dissipation factor(tanδ)	≧ 200% of the specified value											
Leakage current	≧ 200% of the specified value												
Others	Conforms to JIS-C-5101-4 (1998), characteristic W												

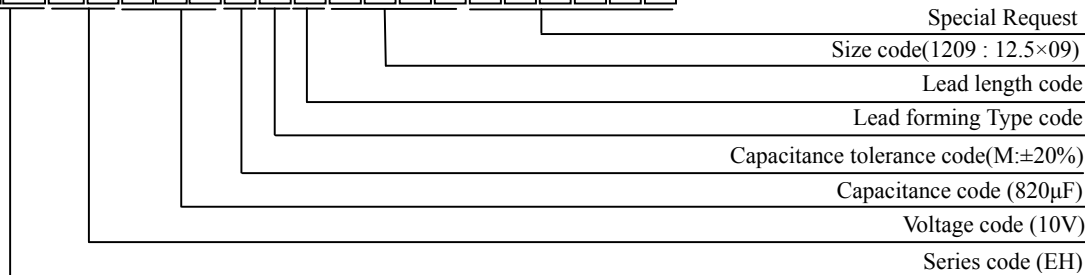
◆ DIMENSIONS (mm)



ΦD	10×9	12.5×9
ΦD	ΦD + 0.5 Max	
Φd	0.6	0.6
F	5.0	5.0
a	L + 1.0 Max	

◆ PART NUMBER SYSTEM(Example : 10V 820µF)

E H 1 A 8 2 1 M N N 1 2 0 9





EH Series

◆ **Case size & Permissible rated ripple current**

Nominal capacitance (uF)	10V		16V		25V		35V	
	Case size ΦD×L (mm)	Max. Rated ripple current @105°C 100kHz (mA rms)	Case size ΦD×L (mm)	Max. Rated ripple current @105°C 100kHz (mA rms)	Case size ΦD×L (mm)	Max. Rated ripple current @105°C 100kHz (mA rms)	Case size ΦD×L (mm)	Max. Rated ripple current @105°C 100kHz (mA rms)
150							10×9	630
220							12.5×9	750
270					10×9	630		
390			10×9	640	12.5×9	700		
560	10×9	600	12.5×9	720				
820	12.5×9	750						

◆ **RIPPLE CURRENT MULTIPLIERS**

Frequency Multipliers

Vdc	Cap(uF)	Frequency (Hz)				
		50/60	120	1K	10K	100K
10 ~ 35	150 ~ 270	0.30	0.50	0.80	0.95	1.00
	390 ~ 820	0.57	0.71	0.90	0.98	1.00