

ALUMINUM ELECTROLYTIC CAPACITORS



EH Series

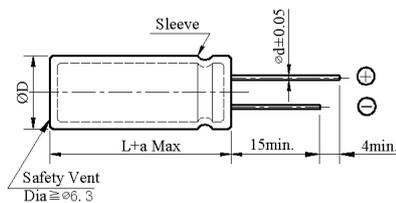
- Low impedance and high ripple current
- Load life 3,000~4,000 hours at 105°C



◆ SPECIFICATIONS

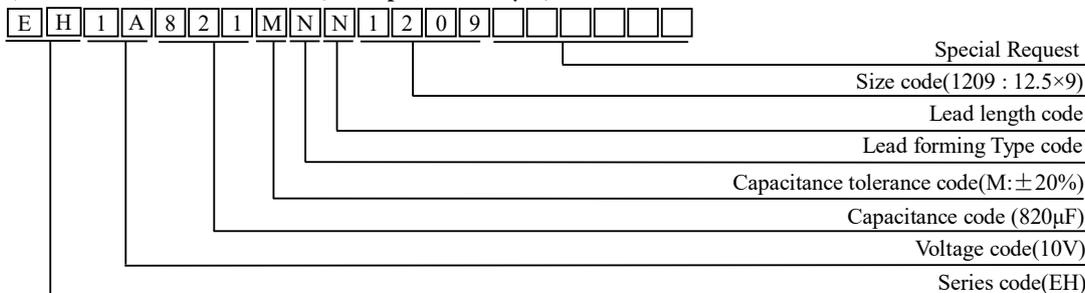
Item	Performance Characteristics												
Category Temperature Range	-55~ +105°C												
Working Voltage Range	10 ~ 35Vdc												
Capacitance Range	150 ~820 µF												
Capacitance Tolerance	±20% (at 25°C and 120Hz)												
Dissipation Factor (tanδ) (at 25°C, 120Hz)	<table border="1"> <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		
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tanδ(Max)	0.19	0.16	0.14	0.12									
When nominal capacitance exceeds 1,000µF, add 0.02 to the value above for each 1,000µF increase.													
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(-40°C)/Z(+20°C)</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table> (at 120Hz)	Rated voltage (V)	10	16	25	35	Z(-40°C)/Z(+20°C)	3	3	3	3		
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Z(-40°C)/Z(+20°C)	3	3	3	3									
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>Φ10</td> <td>3,000</td> </tr> <tr> <td>Leakage current</td> <td>≦ specified value</td> <td>Φ12.5</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	Φ10	3,000	Leakage current	≦ specified value	Φ12.5	4,000
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Dissipation factor(tanδ)	≦ 200% of the specified value	Φ10	3,000										
Leakage current	≦ specified value	Φ12.5	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						
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Others	Conforms to JIS-C-5101-4 (1998)												

◆ 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)



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EH Series

◆ STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case Size (mm) ΦD×L	Rated Ripple current (mA _{rms} /105°C, 100kHz)	Part Number
10 (1A)	560	10×9	600	EH1A561MNN1009
	820	12.5×9	750	EH1A821MNN1209
16 (1C)	390	10×9	640	EH1C391MNN1009
	560	12.5×9	720	EH1C561MNN1209

WV (Vdc)	Cap (μF)	Case Size (mm) ΦD×L	Rated Ripple current (mA _{rms} /105°C, 100kHz)	Part Number
25 (1E)	270	10×9	630	EH1E271MNN1009
	390	12.5×9	700	EH1E391MNN1209
35 (1V)	150	10×9	630	EH1V151MNN1009
	220	12.5×9	750	EH1V221MNN1209

◆ RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Vdc	Cap(μF)	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