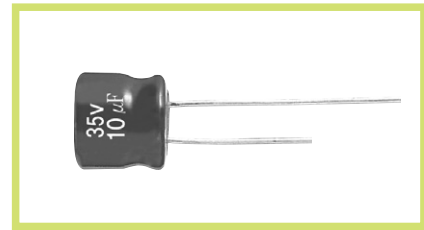


EXB Series

• 105°C 2,000~3,000Hrs assured.

Solvent-proof

- Low Impedance, Long Life.
- Height 5mm.
- For LED TV PSU, DVD Driver.
- RoHS compliant.
- Halogen-free capacitors are also available.



SPECIFICATIONS

Item	Characteristics																				
Rated Voltage Range	6.3 ~ 50 V _{DC}																				
Operating Temperature Range	-55 ~ +105°C																				
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 _{DC}) (at 20°C, 2 minutes)																				
Dissipation Factor(Tanδ)	<table border="1"> <tr> <td>Rated voltage(V_{DC})</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35~50</td> </tr> <tr> <td>Tanδ(Max.)</td> <td>0.22</td> <td>0.20</td> <td>0.18</td> <td>0.14</td> <td>0.12</td> </tr> </table>	Rated voltage(V _{DC})	6.3	10	16	25	35~50	Tanδ(Max.)	0.22	0.20	0.18	0.14	0.12								
	Rated voltage(V _{DC})	6.3	10	16	25	35~50															
Tanδ(Max.)	0.22	0.20	0.18	0.14	0.12																
(at 20°C, 120Hz)																					
Temperature Characteristics (Max. Impedance ratio)	<table border="1"> <tr> <td>Rated voltage(V_{DC})</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35~50</td> </tr> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>3</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>9</td> <td>7</td> <td>5</td> <td>3</td> <td>3</td> </tr> </table>	Rated voltage(V _{DC})	6.3	10	16	25	35~50	Z(-25°C)/Z(20°C)	3	3	2	2	2	Z(-40°C)/Z(20°C)	9	7	5	3	3		
	Rated voltage(V _{DC})	6.3	10	16	25	35~50															
	Z(-25°C)/Z(20°C)	3	3	2	2	2															
Z(-40°C)/Z(20°C)	9	7	5	3	3																
(at 120Hz)																					
Load Life	<p>The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied at 105°C for the specifies period of time.</p> <table border="1"> <tr> <td>V_{DC}</td> <td>6.3~10</td> <td>16</td> <td>25</td> <td>35</td> </tr> <tr> <td>Capacitance change</td> <td>≤ ±20% of the initial value</td> <td>≤ ±20% of the initial value</td> <td>≤ ±20% of the initial value</td> <td>≤ ±20% of the initial value</td> </tr> <tr> <td>Tanδ</td> <td>≤ 200% of the initial specified value</td> <td>≤ 200% of the initial specified value</td> <td>≤ 200% of the initial specified value</td> <td>≤ 200% of the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>≤ The initial specified value</td> <td>≤ The initial specified value</td> <td>≤ The initial specified value</td> <td>≤ The initial specified value</td> </tr> </table>	V _{DC}	6.3~10	16	25	35	Capacitance change	≤ ±20% of the initial value	≤ ±20% of the initial value	≤ ±20% of the initial value	≤ ±20% of the initial value	Tanδ	≤ 200% of the initial specified value	≤ 200% of the initial specified value	≤ 200% of the initial specified value	≤ 200% of the initial specified value	Leakage current	≤ The initial specified value	≤ The initial specified value	≤ The initial specified value	≤ The initial specified value
V _{DC}	6.3~10	16	25	35																	
Capacitance change	≤ ±20% of the initial value	≤ ±20% of the initial value	≤ ±20% of the initial value	≤ ±20% of the initial value																	
Tanδ	≤ 200% of the initial specified value	≤ 200% of the initial specified value	≤ 200% of the initial specified value	≤ 200% of the initial specified value																	
Leakage current	≤ The initial specified value	≤ The initial specified value	≤ The initial specified value	≤ The initial specified value																	
Shelf Life	<p>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. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurements.</p> <table border="1"> <tr> <td>V_{DC}</td> <td>6.3~10</td> <td>16</td> <td>25</td> <td>35</td> </tr> <tr> <td>Capacitance change</td> <td>≤ ±20% of the initial value</td> <td>≤ ±20% of the initial value</td> <td>≤ ±20% of the initial value</td> <td>≤ ±20% of the initial value</td> </tr> <tr> <td>Tanδ</td> <td>≤ 200% of the initial specified value</td> <td>≤ 200% of the initial specified value</td> <td>≤ 200% of the initial specified value</td> <td>≤ 200% of the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>≤ The initial specified value</td> <td>≤ The initial specified value</td> <td>≤ The initial specified value</td> <td>≤ The initial specified value</td> </tr> </table>	V _{DC}	6.3~10	16	25	35	Capacitance change	≤ ±20% of the initial value	≤ ±20% of the initial value	≤ ±20% of the initial value	≤ ±20% of the initial value	Tanδ	≤ 200% of the initial specified value	≤ 200% of the initial specified value	≤ 200% of the initial specified value	≤ 200% of the initial specified value	Leakage current	≤ The initial specified value	≤ The initial specified value	≤ The initial specified value	≤ The initial specified value
V _{DC}	6.3~10	16	25	35																	
Capacitance change	≤ ±20% of the initial value	≤ ±20% of the initial value	≤ ±20% of the initial value	≤ ±20% of the initial value																	
Tanδ	≤ 200% of the initial specified value	≤ 200% of the initial specified value	≤ 200% of the initial specified value	≤ 200% of the initial specified value																	
Leakage current	≤ The initial specified value	≤ The initial specified value	≤ The initial specified value	≤ The initial specified value																	
Others	Satisfied characteristics KS C IEC 60384-4																				

RATINGS OF EXB Series

µF \ V _{DC}	6.3	10	16	25	35	50
1					5x5 3.0 80	
1.5					5x5 3.0 80	5x5 6.0 55
2.2					5x5 3.0 80	5x5 6.0 55
3.3					5x5 3.0 80	5x5 6.0 55
4.7					5x5 3.0 80	5x5 6.0 55
6.8					5x5 3.0 80	6.3x5 2.0 90
10				5x5 1.6 100	5x5 1.6 100	6.3x5 2.0 90
15			1.6 100	5x5 1.6 100	5x5 1.6 100	6.3x5 2.0 90
22			1.6 100	5x5 1.6 100	6.3x5 0.8 140	8x5 1.4 120
33	5x5 1.6 100	5x5 1.6 100	5x5 1.6 100	6.3x5 0.8 140	6.3x5 0.8 140	8x5 1.4 145
47	5x5 1.6 100	5x5 1.6 100	5x5 0.8 140	6.3x5 0.8 140	8x5 0.6 220	
68	6.3x5 0.8 140	6.3x5 0.8 140	6.3x5 0.8 140	8x5 0.6 220		
100	6.3x5 0.8 140	6.3x5 0.8 140	6.3x5 0.6 220			
150	8x5 0.6 220	8x5 0.6 220	8x5			
220	8x5 0.6 220					

Rated Ripple Current(mArms/105°C, 100kHz)
 Impedance (Ω max./20°C, 100kHz)
 Case Size ØD×L(mm)

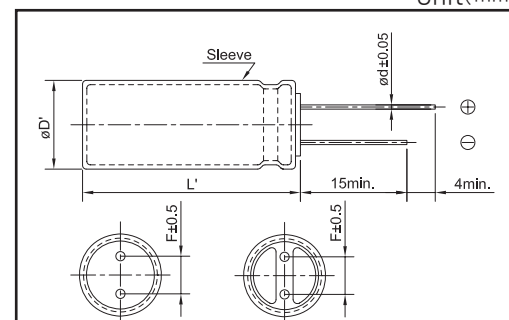
RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Freq.(Hz)	120	1k	10k	50k	100k
Factor	0.40	0.75	0.90	0.95	1.00

DIMENSIONS OF EXB Series

Unit(mm)



Marking : DARK BROWN SLEEVE, SILVER INK

ØD	5	6.3	8
Ød	0.45		
F	2.0	2.5	2.5
ØD'	ØD+0.5max.		
L'	L+1.0max.		L+1.5 max.

EMA/EXB Series