

AX SERIES
105°C Ultra Miniaturized

- Load Life: 105°C, 1000~2000 hours.
- Suitable for AC-adaptor of portable device.

RoHS
compliance


◆ SPECIFICATIONS

Items	Characteristics																														
Category Temperature Range	-40~+105°C																														
Rated Voltage Range	6.3~35, 400Vdc																														
Capacitance Tolerance	±20% (20°C, 120Hz)																														
Leakage Current(MAX)	6.3~35Vdc	400Vdc																													
	I=0.01CV or 3μA whichever is greater. (After 2 minutes application of rated voltage)																														
	I=0.04CV+100μA (After 1 minute application of rated voltage) I=0.02CV+25μA (After 5 minutes application of rated voltage)																														
	I=Leakage Current(μA) C=Capacitance(μF) V=Rated Voltage(Vdc)																														
Dissipation Factor(MAX) (tanδ)	<table border="1" style="width: 100%; text-align: center;"> <tr> <th>Rated Voltage (Vdc)</th> <td>6.3</td><td>8</td><td>10</td><td>16</td><td>25</td><td>35</td><td>400</td> </tr> <tr> <th>tanδ</th> <td>0.22</td><td>0.20</td><td>0.19</td><td>0.16</td><td>0.14</td><td>0.12</td><td>0.25</td> </tr> </table> (20°C, 120Hz)							Rated Voltage (Vdc)	6.3	8	10	16	25	35	400	tanδ	0.22	0.20	0.19	0.16	0.14	0.12	0.25								
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tanδ	0.22	0.20	0.19	0.16	0.14	0.12	0.25																								
Endurance	After applying rated voltage with rated ripple current for specified time at 105°C, the capacitors shall meet the following requirements.																														
	<table border="1" style="width: 100%;"> <tr> <td>Capacitance Change</td> <td>Within ±25% of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </table>				Capacitance Change	Within ±25% of the initial value.	Dissipation Factor	Not more than 200% of the specified value.	Leakage Current	Not more than the specified value.	<table border="1" style="width: 100%;"> <tr> <td>Case Size</td> <td>Life Time (hrs)</td> </tr> <tr> <td>L≤7.5</td> <td>1000</td> </tr> <tr> <td>L≥9</td> <td>2000</td> </tr> </table>		Case Size	Life Time (hrs)	L≤7.5	1000	L≥9	2000													
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L≥9	2000																														
Low Temperature Stability Impedance Ratio(MAX)	<table border="1" style="width: 100%; text-align: center;"> <tr> <th>Rated Voltage (Vdc)</th> <td>6.3</td><td>8</td><td>10</td><td>16</td><td>25</td><td>35</td><td>400</td> </tr> <tr> <th>Z(-25°C)/Z(20°C)</th> <td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>6</td> </tr> <tr> <th>Z(-40°C)/Z(20°C)</th> <td>12</td><td>12</td><td>12</td><td>10</td><td>8</td><td>6</td><td>10</td> </tr> </table> (120Hz)							Rated Voltage (Vdc)	6.3	8	10	16	25	35	400	Z(-25°C)/Z(20°C)	2	2	2	2	2	2	6	Z(-40°C)/Z(20°C)	12	12	12	10	8	6	10
	Rated Voltage (Vdc)	6.3	8	10	16	25	35	400																							
	Z(-25°C)/Z(20°C)	2	2	2	2	2	2	6																							
Z(-40°C)/Z(20°C)	12	12	12	10	8	6	10																								

◆ MULTIPLIER FOR RIPPLE CURRENT

6.3~35Vdc

Frequency (Hz)		120	1k	10k	100k≤
Coefficient	68~82μF	0.21	0.73	0.92	1.00
	150~270μF	0.36	0.73	0.92	1.00
	330~750μF	0.55	0.77	0.94	1.00
	820~1200μF	0.60	0.80	0.96	1.00

400Vdc

Frequency (Hz)		60(50)	120	500	1k	10k≤
Coefficient	4.7~8.2μF	0.65	1.00	1.20	1.30	1.50
	10~24μF	0.80	1.00	1.20	1.30	1.50

◆ OPTION

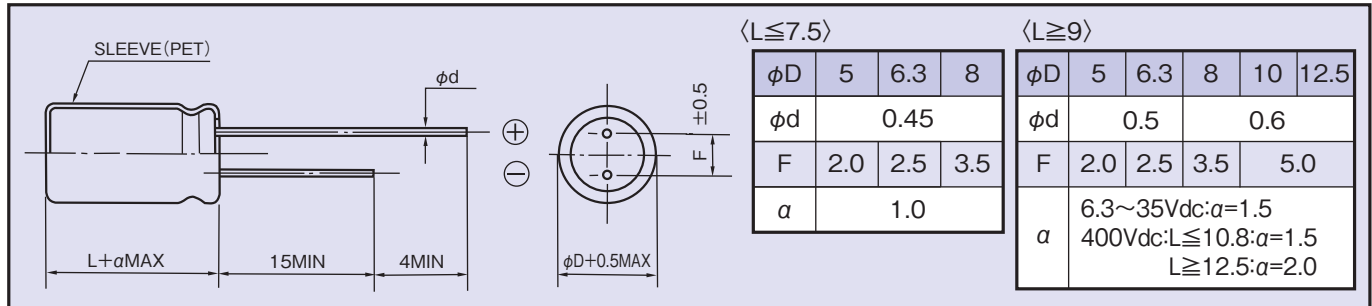
	Code
PET Sleeve	EFC

◆ PART NUMBER

□□□	AX	□□□	M	□□□	□□	DXL
Rated Voltage	Series	Capacitance	Capacitance Tolerance	Option	Lead Forming	Case Size

◆ DIMENSIONS

(mm)



◆ STANDARD SIZE

Rated Voltage (Vdc)	Capacitance (μF)	Size φD×L(mm)	Rated ripple current (mA r.m.s./105°C,100kHz)	Impedance (Ω MAX/20°C,100kHz)
6.3	82	5×7	510	0.25
	220	5×11	800	0.14
		6.3×7	720	0.13
	470	6.3×11	1140	0.067
		8×7.5	1080	0.065
	680	8×9	1360	0.049
	820	8×10.8	1600	0.042
	1000	8×16	2010	0.027
10×9		1540	0.036	
1200	10×12.5	1970	0.025	
8	75	5×7	510	0.25
	200	5×11	800	0.14
		6.3×7	720	0.13
	390	8×7.5	1080	0.065
	430	6.3×11	1140	0.067
	620	8×9	1360	0.049
	750	8×10.8	1600	0.042
	910	8×16	2010	0.027
		10×9	1540	0.036
1100	10×12.5	1970	0.025	
10	68	5×7	510	0.25
	180	5×11	800	0.14
		6.3×7	720	0.13
	330	8×7.5	1080	0.065
	390	6.3×11	1140	0.067
	560	8×9	1360	0.049
	680	8×10.8	1600	0.042
	820	8×16	2010	0.027
		10×9	1540	0.036
1000	10×12.5	1970	0.025	

Rated Voltage (Vdc)	Capacitance (μF)	Size φD×L(mm)	Rated ripple current (mA r.m.s./105°C,100kHz)	Impedance (Ω MAX/20°C,100kHz)
16	390	8×9	1360	0.049
	470	8×10.8	1600	0.042
	560	8×16	2010	0.027
		10×9	1540	0.036
	680	10×12.5	1970	0.025
	1000	10×16	2480	0.019
25	220	8×9	1360	0.049
	270	8×10.8	1600	0.042
	390	8×16	2010	0.027
		10×9	1540	0.036
	470	10×12.5	1970	0.025
35	680	10×16	2480	0.019
	150	8×9	1360	0.049
	180	8×10.8	1600	0.042
400	220	8×16	2010	0.027
		10×9	1540	0.036
	270	10×12.5	1970	0.025
	390	10×16	2480	0.019

Rated Voltage (Vdc)	Capacitance (μF)	Size φD×L(mm)	Rated ripple current (mA r.m.s./105°C,120Hz)
400	4.7	6.3×14	50
		8×9	
	6.8	8×10.8	70
		8×10.8	
	7.5	8×10.8	75
		8×16	
	8.2	10×9	85
		8×16	
	10	10×12.5	90
		10×12.5	
	12	8×20	120
		10×12.5	
	15	8×20	130
		10×16	
18	10×16	150	
22	12.5×16	180	
24	12.5×16	190	

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