

AX SERIES

UPGRADE

105°C Ultra Miniaturized.

◆FEATURES

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



◆SPECIFICATIONS

Items	Characteristics																															
Category Temperature Range	−40~+105°C																															
Rated Voltage Range	6.3~35, 400V.DC																															
Capacitance Tolerance	±20% (20°C, 120Hz)																															
Leakage Current(MAX)	6.3~35V.DC I=0.01CV or 3μA whichever is greater. (After 2 minnutes application of rated voltage)				400V.DC I=0.04CV+100μA (After 1 minites application of rated voltage) I=0.02CV+25μA (After 5 minites application of rated voltage)																											
	I=Leakage Current(μA) C=Capacitance(μF) V=Rated Voltage(V)																															
Dissipation Factor(MAX) (tanδ)	<table border="1"> <tr> <td>Rated Voltage (V)</td><td>6.3</td><td>8</td><td>10</td><td>16</td><td>25</td><td>35</td><td>400</td> </tr> <tr> <td>tanδ</td><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 (V)	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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Endurance	After life test with rated ripple current at conditions stated in the table below at 105°C, the capacitors shall meet the following requirements.																															
	<table border="1"> <tr> <td>Capacitance Change</td><td colspan="3">Within ±25% of the initial value.</td></tr> <tr> <td>Dissipation Factor</td><td colspan="3">Not more than 200% of the specified value.</td></tr> <tr> <td>Leakage Current</td><td colspan="3">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"> <tr> <td>Case Size</td><td colspan="2">Life Time (hrs)</td></tr> <tr> <td>L≤7.5</td><td colspan="2">1000</td></tr> <tr> <td>L≥9</td><td colspan="2">2000</td></tr> </table>				Case Size	Life Time (hrs)		L≤7.5	1000		L≥9	2000				
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Low Temperature Stability Impedance Ratio(MAX)	<table border="1"> <tr> <td>Rated Voltage (V)</td><td>6.3</td><td>8</td><td>10</td><td>16</td><td>25</td><td>35</td><td>400</td> </tr> <tr> <td>Z(-25°C)/Z(20°C)</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>6</td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td><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 (V)	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 (V)	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

6.3~35V.DC

Frequency (Hz)	120	1k	10k	100k≤
Coefficient	68~270μF	0.50	0.73	0.92
	330~750μF	0.55	0.77	0.94
	820~1200μF	0.60	0.80	0.96

400V.DC

Frequency (Hz)	60(50)	120	500	1k	10k≤
Coefficient	4.7~8.2μF	0.65	1.00	1.20	1.30
	10~15μF	0.80	1.00	1.20	1.30

◆OPTION

	Code
PET Sleeve	EFC

◆PART NUMBER

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

◆DIMENSIONS

(mm)

ϕD	5	6.3	8
ϕd	0.45		
F	2	2.5	3.5
a	1.0		
α	6.3V.DC~35V.DC: $a=1.5$		
	400V.DC: $L \leq 10.8:a=1.5$		
	$L \geq 12.5:a=2.0$		

◆STANDARD SIZE

Rated Voltage (V·DC)	capacitance (μF)	Size $\phi D \times L$ (mm)	Rated ripple current (mA r.m.s./105°C,100kHz)	Impedance (Ω MAX/20°C,100kHz)	Rated Voltage (V·DC)	capacitance (μF)	Size $\phi D \times L$ (mm)	Rated ripple current (mA r.m.s./105°C,100kHz)	Impedance (Ω MAX/20°C,100kHz)
6.3 (0J)	82	5×7	510	0.25	16 (1C)	390	8×9	1360	0.049
	220	6.3×7	720	0.13		470	8×10.8	1600	0.042
		5×11	800	0.14		560	8×16	2010	0.027
	470	8×7.5	1080	0.065		10×9	1540	0.036	
		6.3×11	1140	0.067		680	10×12.5	1970	0.025
	680	8×9	1360	0.049		1000	10×16	2480	0.019
	820	8×10.8	1600	0.042	25 (1E)	220	8×9	1360	0.049
		8×16	2010	0.027		270	8×10.8	1600	0.042
	1000	10×9	1540	0.036		390	8×16	2010	0.027
		10×12.5	1970	0.025		470	10×12.5	1970	0.025
	1200					680	10×16	2480	0.019
8 (0K)	75	5×7	510	0.25	35 (1V)	150	8×9	1360	0.049
		6.3×7	720	0.13		180	8×10.8	1600	0.042
	200	5×11	800	0.14		220	8×16	2010	0.027
		8×7.5	1080	0.065		10×9	1540	0.036	
	390	6.3×11	1140	0.067		470	10×12.5	1970	0.025
	430	8×9	1360	0.049		680	10×16	2480	0.019
		8×10.8	1600	0.042		150	8×9	1360	0.049
	620					180	8×10.8	1600	0.042
	750	8×16	2010	0.027		220	8×16	2010	0.027
		10×9	1540	0.036		10×9	1540	0.036	
	910	10×12.5	1970	0.025		270	10×12.5	1970	0.025
10 (1A)	1100					390	10×16	2480	0.019
	68	5×7	510	0.25	400 (2G)	4.7	6.3×14	50	
		6.3×7	720	0.13			8×9		
	180	5×11	800	0.14		6.8	8×10.8	70	
		8×7.5	1080	0.065		8.2	8×16	85	
	330	6.3×11	1140	0.067			10×9		
	390	8×9	1360	0.049		10	10×12.5	100	
	560	8×10.8	1600	0.042		12	8×20	120	
						15	10×16	150	
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