

AX SERIES
105°C Ultra Miniaturized

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


◆ 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)	Rated Voltage (Vdc)	6.3 8 10 16 25 35 400 (20°C, 120Hz)							
	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.								
	Capacitance Change	Within ±25% of the initial value.				Case Size	Life Time (hrs)		
	Dissipation Factor	Not more than 200% of the specified value.				L≤7.5	1000		
	Leakage Current	Not more than the specified value.				L≥9	2000		
Low Temperature Stability Impedance Ratio(MAX)	Rated Voltage (Vdc)	6.3	8	10	16	25	35	400	(120Hz)
	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

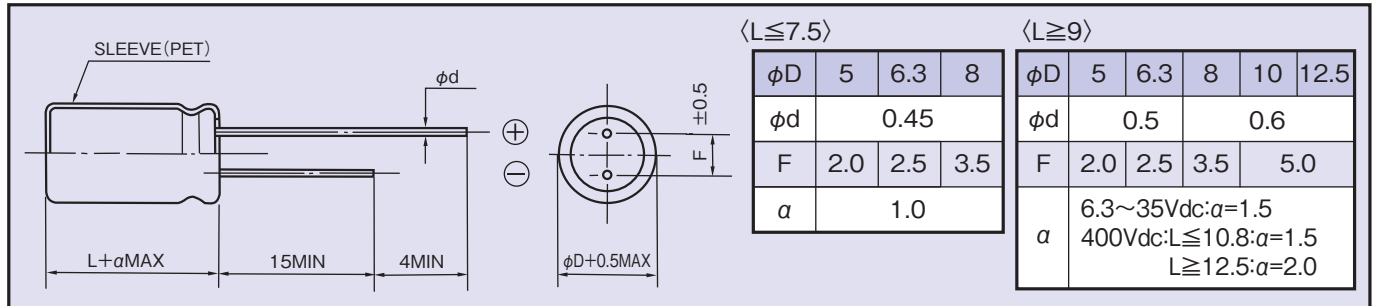
	Code
PET Sleeve	EFC

◆ 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 $\phi D \times L$ (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 $\phi D \times L$ (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	8×20	120	120
		10×16	150	150

Rated Voltage (Vdc)	Capacitance (μF)	Size $\phi D \times L$ (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	75
	8.2	8×16	85
		10×9	
	10	8×16	90
		10×12.5	100
	12	8×20	120
		10×12.5	110
	15	8×20	130
		10×16	150
	18	10×16	150
	22	12.5×16	180
24	12.5×16	190	