

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℃									
Rated Voltage Range	6.3~35, 400V.DC									
Capacitance Tolerance	±20% (20℃,120Hz)									
Leakage Current(MAX)	6.3~35V.DC				400V.DC					
	I=0.01CV or 3μA whichever is greater. (After 2 minnutes application of rated voltage)				I=0.04CV+100μA (After 1 minites appllication of rated voltage) I=0.02CV+25μA (After 5 minites appllication of rated voltage)					
	I=Leakage Current(μA)				C=Capacitance(μF)		V=Rated Voltage(V)			
Dissipation Factor(MAX) (tanδ)	Rated Voltage (V)	6.3	8	10	16	25	35	400	(20℃,120Hz)	
	tanδ	0.22	0.20	0.19	0.16	0.14	0.12	0.25		
Endurance	After life test with rated ripple current at conditions stated in the table below at 105℃, 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 (V)	6.3	8	10	16	25	35	400	(120Hz)	
	Z(-25℃)/Z(20℃)	2	2	2	2	2	2	6		
	Z(-40℃)/Z(20℃)	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	1.00
	330~750μF	0.55	0.77	0.94	1.00
	820~1200μF	0.60	0.80	0.96	1.00

400V.DC

Frequency (Hz)		60(50)	120	500	1k	10k≤
Coefficient	4.7~8.2μF	0.65	1.00	1.20	1.30	1.50
	10~15μF	0.80	1.00	1.20	1.30	1.50

◆OPTION

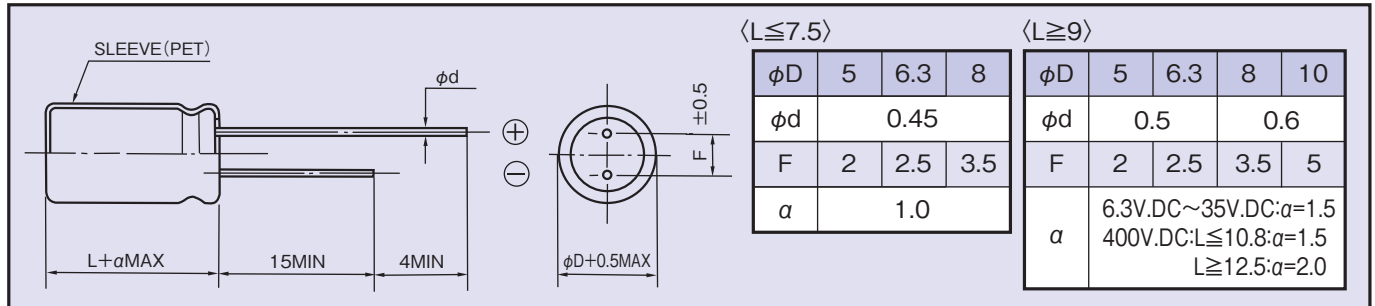
	Code
PET Sleeve	EFC

◆PART NUMBER

	AX		M			D×L
Rated Voltage	Series	Capacitance	Capacitance Tolerance	Option	Lead Forming	Case Size

◆ DIMENSIONS

(mm)



◆ 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)
6.3 (0J)	82	5×7	510	0.25
	220	6.3×7	720	0.13
		5×11	800	0.14
	470	8×7.5	1080	0.065
		6.3×11	1140	0.067
	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 (0K)	75	5×7	510	0.25
	200	6.3×7	720	0.13
		5×11	800	0.14
	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 (1A)	68	5×7	510	0.25
	180	6.3×7	720	0.13
		5×11	800	0.14
	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 (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)
16 (1C)	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 (1E)	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
	680	10×16	2480	0.019
35 (1V)	150	8×9	1360	0.049
	180	8×10.8	1600	0.042
	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 (V·DC)	capacitance (μF)	Size $\phi D \times L$ (mm)	Rated ripple current (mA r.m.s./105°C, 120Hz)
400 (2G)	4.7	6.3×14	50
	6.8	8×9	70
		8×10.8	
	8.2	8×16	85
		10×9	
	10	10×12.5	100
	12	8×20	120
	15	10×16	150