



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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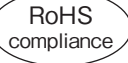
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AX SERIES
105°C Ultra Miniaturized

- 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						
	tanδ	0.22 0.20 0.19 0.16 0.14 0.12 0.25						
	(20°C, 120Hz)							
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
	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
	(120Hz)							

◆ 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

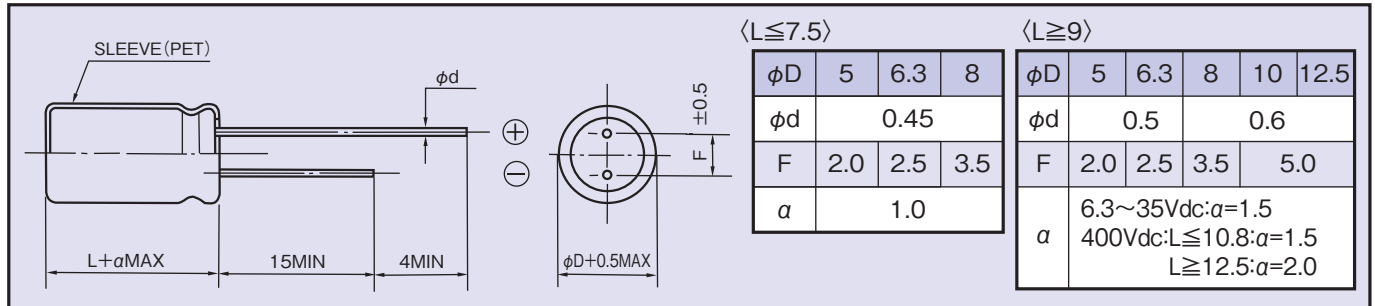
	Code
PET Sleeve	EFC

◆ PART NUMBER

□□□	AX	□□□	M	□□□	□□	D×L
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	10×16	2480	0.019

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
	7.5	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	