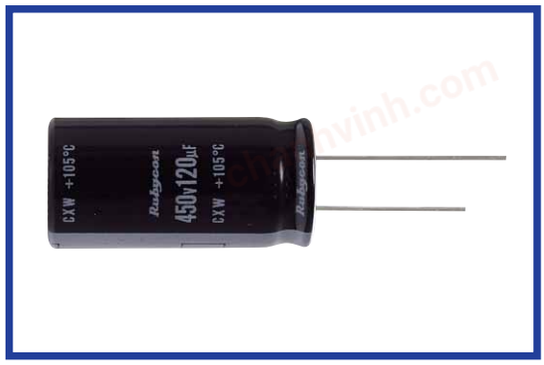
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Rubycon | MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS | CXW

CXW SERIES

105℃ Long Life(5000 hours),Ultra Miniaturized



◆FEATURES

- Load Life : 105℃ 5000 hours.(Temperature Range:-40℃~+105℃)
- Body diameter of φ10mm to φ18mm with high ripple current capability.
- This series is smaller and longer life than the current KXW series.
- RoHS compliance.

◆SPECIFICATIONS

Items	Characteristics
Category Temperature Range	−40~+105℃
Rated Voltage Range	400~450V.DC
Capacitance Tolerance	±20%(20℃,120Hz)
Leakage Current(MAX)	I=3$\sqrt{CV}$ (After 5 minutes application of rated voltage) I=Leakage Current(μA) C=Capacitance(μF) V=Rated Voltage(V)
Dissipation Factor(MAX) (tanδ)	0.2 (20℃, 120Hz)
Endurance	After applying rated voltage with rated ripple current for 5000 hours at 105℃, the capacitors shall meet the following requirements.
Low Temperature Stability Impedance Ratio(MAX)	(120Hz)

Endurance:

Capacitance Change	Within ±20% of the initial value.
Dissipation Factor	Not more than 200% of the specified value.
Leakage Current	Not more than the specified value.

Low Temperature Stability Impedance Ratio(MAX):

Rated Voltage (V)	400	420, 450
Z(−25℃)/Z(20℃)	5	6

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency (Hz)	60(50)	120	500	1k	10k≦
Coefficient	0.8	1.00	1.25	1.40	1.50

◆OPTION

	Code
PET Sleeve (−40~+105℃)	EFR ※

※PET Sleeve −25~+105℃(EFC)is also available, please consult our sales offices.

◆PART NUMBER

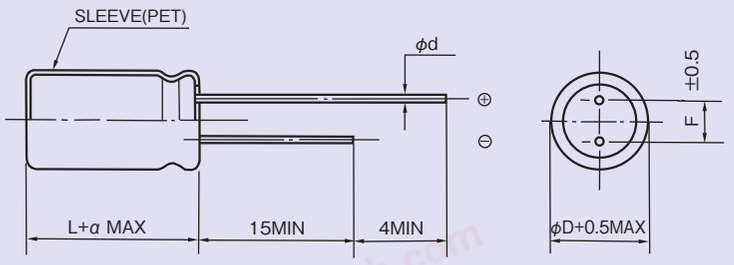
□□□	CXW	□□□	M	□□□	□□	D×L
Rated Voltage	Series	Capacitance	Capacitance Tolerance	Option	Lead Forming	Case Size

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Rubycon **MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS** **CXW**

◆DIMENSIONS

(mm)



ϕD	10	12.5	14.5	16	18
ϕd	0.6		0.8		
F	5.0		7.5		
α	2.0				

◆STANDARD SIZE

Rated Voltage (V.DC)	Capacitance (μF)	Size ϕD×L (mm)	Rated Ripple Current (A r.m.s.105℃,120Hz)
400	39	10×40	0.37
	47	10×45	0.42
	56	10×50	0.47
	68	12.5×40	0.54
	82	12.5×45	0.61
	82	14.5×31.5	0.57
	100	12.5×50	0.68
	100	14.5×40	0.69
	100	16×31.5	0.71
	120	14.5×45	0.79
	120	16×35	0.80
	150	16×40	0.92
	150	18×31.5	0.89
	150	18×40	1.05
	180	16×50	1.08
	180	18×40	1.06
	220	18×45	1.20
420	39	10×40	0.36
	47	10×50	0.43
	56	12.5×40	0.48
	68	12.5×40	0.52
	68	14.5×31.5	0.52
	82	12.5×45	0.59
	82	14.5×35	0.59
	100	14.5×40	0.67
	100	16×31.5	0.69
	120	14.5×45	0.75
	120	16×35	0.78
	120	18×31.5	0.80
	150	16×45	0.94
	150	18×35	0.92
	180	16×50	1.05
	180	18×40	1.04
	220	18×50	1.22

Rated Voltage (V.DC)	Capacitance (μF)	Size ϕD×L (mm)	Rated Ripple Current (A r.m.s.105℃,120Hz)
450	33	10×40	0.34
	39	10×45	0.38
	47	12.5×40	0.44
	56	12.5×40	0.49
	68	12.5×45	0.55
	68	14.5×31.5	0.52
	82	12.5×50	0.62
	82	14.5×40	0.63
	82	16×31.5	0.64
	100	14.5×45	0.71
	100	16×35	0.73
	120	14.5×50	0.79
	120	16×40	0.82
	120	18×31.5	0.80
	120	18×40	0.85
	150	16×50	0.98
	150	18×40	0.97
	180	18×45	1.09
	220	18×50	1.22