

Rubycon
MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS
VXW

VXW SERIES

◆FEATURES

- Load Life : 105℃ 10000 hours.
- Body diameter of ϕ 12.5mm to ϕ 18mm with high ripple current capability.
- Longer life than the current AXW series.
- RoHS compliance.



◆SPECIFICATIONS

Items	Characteristics															
Category Temperature Range	-25~+105℃															
Rated Voltage Range	200・400・420・450V.DC															
Capacitance Tolerance	±20% (20℃, 120Hz)															
Leakage Current(MAX)	$I=3\sqrt{CV}$ (After 5 minutes application of rated voltage) I =Leakage Current(μ A) C =Rated Capacitance(μ F) V =Rated Voltage(V)															
Dissipation Factor(MAX) (tan δ)	<table><tr><td>Rated Voltage (V)</td><td>200</td><td>400</td><td>420~450</td></tr><tr><td>tan δ</td><td>0.15</td><td>0.15</td><td>0.20</td></tr></table>	Rated Voltage (V)	200	400	420~450	tan δ	0.15	0.15	0.20	(20℃, 120Hz)						
Rated Voltage (V)	200	400	420~450													
tan δ	0.15	0.15	0.20													
Endurance	After applying rated voltage with rated ripple current for 10000hrs at 105℃, the capacitors shall meet the following requirements. <table><tr><td>Capacitance Change</td><td colspan="3">Within ±20% 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 ±20% of the initial value.			Dissipation Factor	Not more than 200% of the specified value.			Leakage Current	Not more than the specified value.		
Capacitance Change	Within ±20% of the initial value.															
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Impedance Ratio(MAX)	<table><tr><td>Rated Voltage (V)</td><td>200</td><td>400~450</td></tr><tr><td>Z(-25℃)/Z(20℃)</td><td>3</td><td>8</td></tr></table>	Rated Voltage (V)	200	400~450	Z(-25℃)/Z(20℃)	3	8	(120Hz)								
Rated Voltage (V)	200	400~450														
Z(-25℃)/Z(20℃)	3	8														

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

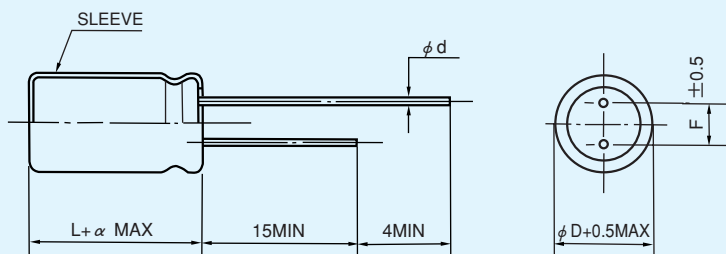
Frequency (Hz)		60 (50)	120	500	1k	10k≦
Coefficient	200WV	0.8	1.0	1.20	1.30	1.40
	400~450WV	0.8	1.0	1.25	1.40	1.50

◆PART NUMBER

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

◆DIMENSIONS

(mm)



ϕ D	12.5	16	18
ϕ d	0.6	0.8	
F	5.0	7.5	
α	2.5		

◆STANDARD SIZE, RATED RIPPLE CURRENT

Cap (μF)	WV ϕD	200					
		$\phi 12.5$		$\phi 16$		$\phi 18$	
120		12.5×30	0.53				
150		12.5×35	0.62				
180		12.5×40	0.70				
220				16×30	0.76	18×30	0.81
270				16×35	0.88	18×30	0.87
330				16×40	1.10	18×35	1.01
390						18×40	1.13
470						18×45	1.27

Cap (μF)	WV ϕD	400					
		$\phi 12.5$		$\phi 16$		$\phi 18$	
39		12.5×30	0.32				
47		12.5×35	0.37				
56		12.5×40	0.42				
68				16×30	0.48		
82				16×30	0.50		
100				16×35	0.58	18×30	0.58
120				16×40	0.66	18×35	0.67
150						18×40	0.77
180						18×45	0.88

Cap (μF)	WV ϕD	420						450					
		$\phi 12.5$		$\phi 16$		$\phi 18$		$\phi 12.5$		$\phi 16$		$\phi 18$	
27								12.5×30	0.25				
33		12.5×30	0.27					12.5×35	0.28				
39		12.5×35	0.31					12.5×40	0.32				
47		12.5×40	0.36							16×30	0.38		
56				16×30	0.43					16×35	0.44		
68				16×35	0.51	18×30	0.51			16×40	0.49	18×30	0.48
82				16×40	0.57	18×30	0.57					18×30	0.55
100						18×35	0.61					18×35	0.65
120						18×40	0.66					18×40	0.74

Please check with us about individual WV, Cap., size and dimensions.

 Size $\phi D \times L$ (mm)
 Ripple Current (A r.m.s./105°C, 120Hz)