

AXW SERIES

◆FEATURES

- Load Life : 105°C 2000 hours.
- Body diameter of ϕ 10mm to ϕ 18mm with high ripple current capability.
- This series is two classes smaller than the current MXW series.
- RoHS compliance.



◆SPECIFICATIONS

Items	Characteristics								
Category Temperature Range	-25~+105℃								
Rated Voltage Range	200~450V.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>200~250</td><td>400</td><td>420~450</td></tr><tr><td>tan δ</td><td>0.12</td><td>0.15</td><td>0.2</td></tr></table> (20℃, 120Hz)	Rated Voltage (V)	200~250	400	420~450	tan δ	0.12	0.15	0.2
Rated Voltage (V)	200~250	400	420~450						
tan δ	0.12	0.15	0.2						
Endurance	After applying rated voltage with rated ripple current for 2000hrs at 105℃, the capacitors shall meet the following requirements. <table><tr><td>Capacitance Change</td><td>Within ±20% of the initial value.</td></tr><tr><td>Dissipation Factor</td><td>Not more than 200% of the specified value.</td></tr><tr><td>Leakage Current</td><td>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.								
Dissipation Factor	Not more than 200% of the specified value.								
Leakage Current	Not more than the specified value.								
Impedance Ratio(MAX)	<table><tr><td>Rated Voltage (V)</td><td>200~250</td><td>400~450</td></tr><tr><td>Z(-25℃)/Z(20℃)</td><td>3</td><td>8</td></tr></table> (120Hz)	Rated Voltage (V)	200~250	400~450	Z(-25℃)/Z(20℃)	3	8		
Rated Voltage (V)	200~250	400~450							
Z(-25℃)/Z(20℃)	3	8							

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

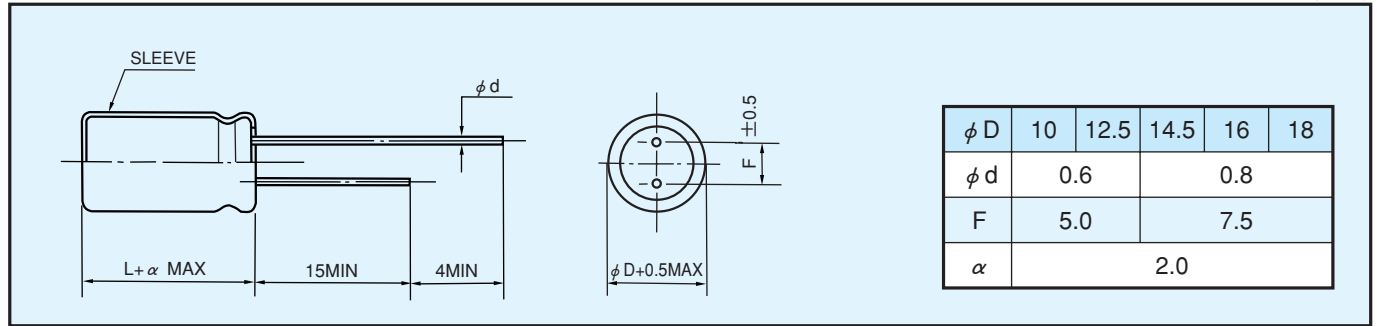
Frequency (Hz)	60(50)	120	500	1k	10k≤
Coefficient					
200~250WV	0.8	1.0	1.20	1.30	1.40
400~450WV	0.8	1.0	1.25	1.40	1.50

◆PART NUMBER

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

◆ DIMENSIONS

(mm)



◆ STANDARD SIZE, RATED RIPPLE CURRENT

Cap (μF)	WV ϕD	200					220				
		$\phi 10$	$\phi 12.5$	$\phi 14.5$	$\phi 16$	$\phi 18$	$\phi 10$	$\phi 12.5$	$\phi 14.5$	$\phi 16$	$\phi 18$
56							10×30: 0.29				
68	10×30: 0.35						10×35: 0.33				
82	10×35: 0.40						10×40: 0.37				
100	10×40: 0.46							12.5×30: 0.43			
120			12.5×30: 0.53					12.5×35: 0.49			
150			12.5×35: 0.62					12.5×40: 0.58	14.5×30: 0.58		
180			12.5×40: 0.70	14.5×30: 0.66				14.5×35: 0.68	16×30: 0.67		
220				14.5×35: 0.80	16×30: 0.76	18×30: 0.81			14.5×40: 0.78	16×35: 0.77	18×30: 0.77
270				14.5×40: 0.90	16×35: 0.88	18×30: 0.87				16×40: 0.88	18×35: 0.88
330					16×40: 1.10	18×35: 1.01					18×40: 1.01
390						18×40: 1.13					18×45: 1.13
470						18×45: 1.27					

Cap (μF)	WV ϕD	250					400				
		$\phi 10$	$\phi 12.5$	$\phi 14.5$	$\phi 16$	$\phi 18$	$\phi 10$	$\phi 12.5$	$\phi 14.5$	$\phi 16$	$\phi 18$
22							10×30: 0.21				
27							10×35: 0.24				
33							10×40: 0.28				
39								12.5×30: 0.32			
47	10×30: 0.27							12.5×35: 0.37			
56	10×35: 0.30							12.5×40: 0.42	14.5×30: 0.42		
68	10×40: 0.35								14.5×35: 0.48		
82			12.5×30: 0.40						14.5×35: 0.52	16×30: 0.50	
100			12.5×35: 0.46							16×35: 0.58	18×30: 0.58
120			12.5×40: 0.53	14.5×30: 0.53						16×40: 0.66	18×35: 0.67
150				14.5×35: 0.62	16×30: 0.62						18×40: 0.77
180				14.5×40: 0.72	16×35: 0.72	18×30: 0.72					18×45: 0.88
220					16×40: 0.83	18×35: 0.83					
270						18×40: 0.95					
330						18×45: 1.07					

Cap (μF)	WV ϕD	420					450				
		$\phi 10$	$\phi 12.5$	$\phi 14.5$	$\phi 16$	$\phi 18$	$\phi 10$	$\phi 12.5$	$\phi 14.5$	$\phi 16$	$\phi 18$
15							10×30: 0.15				
18	10×30: 0.17						10×35: 0.18				
22	10×35: 0.20						10×40: 0.21				
27	10×40: 0.23							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	14.5×30: 0.32		
47			12.5×40: 0.36	14.5×30: 0.36					14.5×35: 0.38	16×30: 0.38	
56				14.5×35: 0.43	16×30: 0.43				14.5×40: 0.44	16×35: 0.44	
68				14.5×40: 0.51	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					18×35: 0.55
100						18×35: 0.61					18×40: 0.65
120						18×40: 0.66					18×45: 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)