

AXW SERIES
◆ FEATURES

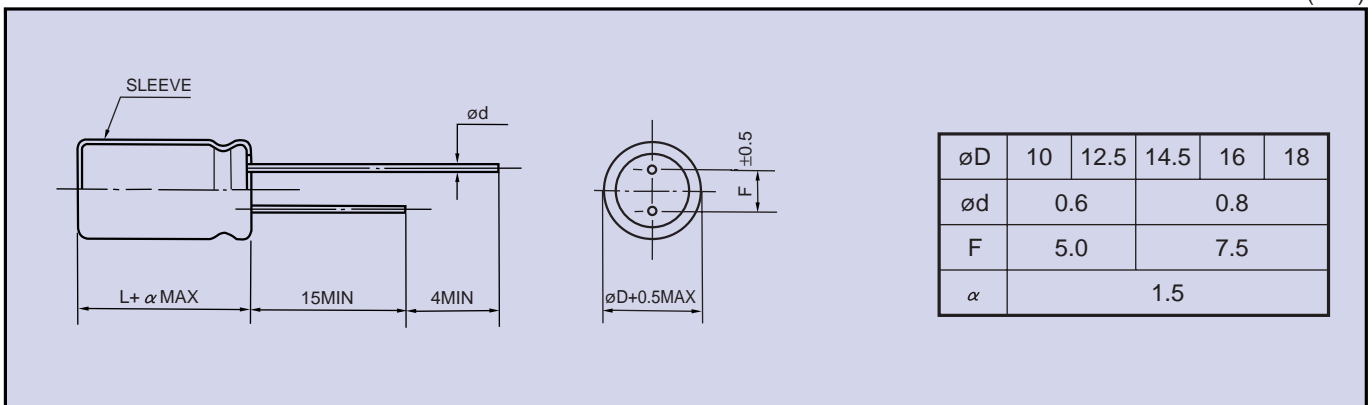
- Load Life : 105°C 2000 hours.
- Body diameter of ø10mm to ø18mm with high ripple current capability.
- This series is two classes smaller than the current MXW series.


◆ SPECIFICATIONS

Items	Characteristics										
Operating Temperature Range	-25~+105°C										
Rated Voltage Range	200~450V.DC										
Capacitance Tolerance	±20%(20°C,120Hz)										
Leakage Current(MAX)	$I=3\sqrt{CV}$ (After 5 minutes application of rated voltage) I=Leakage Current(μA) C=Nominal Capacitance(μF) V=Rated Voltage(V)										
Dissipation Factor(MAX)	<table border="1"> <tr> <td>Rated Voltage (V)</td> <td>200~250</td> <td>400</td> <td>420~450</td> <td>(20°C, 120Hz)</td> </tr> <tr> <td>tanδ</td> <td>0.12</td> <td>0.15</td> <td>0.2</td> <td></td> </tr> </table>	Rated Voltage (V)	200~250	400	420~450	(20°C, 120Hz)	tanδ	0.12	0.15	0.2	
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Load Life	After applying rated voltage with max ripple current for 2000hrs at 105°C, the capacitors shall meet the following requirements. <table border="1"> <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.				
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Impedance Ratio(MAX)	<table border="1"> <tr> <td>Rated Voltage(V)</td> <td>200~250</td> <td>400~450</td> <td>(120Hz)</td> </tr> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>3</td> <td>8</td> <td></td> </tr> </table>	Rated Voltage(V)	200~250	400~450	(120Hz)	Z(-25°C)/Z(20°C)	3	8			
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◆ DIMENSIONS

(mm)



◆ STANDARD SIZE, MAX. PERMISSIBLE RIPPLE CURRENT

Cap(μF)	WV øD	200					220				
		ø10	ø12.5	ø14.5	ø16	ø18	ø10	ø12.5	ø14.5	ø16	ø18
56							10x30 : 0.29				
68	10x30 : 0.35						10x35 : 0.33				
82	10x35 : 0.40						10x40 : 0.37				
100	10x40 : 0.46							12.5x30 : 0.43			
120		12.5x30 : 0.53						12.5x35 : 0.49			
150		12.5x35 : 0.62						12.5x40 : 0.58			
180		12.5x40 : 0.70	14.5x30 : 0.66					14.5x30 : 0.58	16x30 : 0.67		
220			14.5x35 : 0.80	16x30 : 0.76	18x30 : 0.81			14.5x40 : 0.78	16x35 : 0.77	18x30 : 0.77	
270			14.5x40 : 0.90	16x35 : 0.88	18x30 : 0.87				16x40 : 0.88	18x35 : 0.88	
330				16x45 : 1.10	18x35 : 1.01					18x40 : 1.01	
390					18x40 : 1.13					18x45 : 1.13	
470					18x45 : 1.27						

Cap(μF)	WV øD	250					400				
		ø10	ø12.5	ø14.5	ø16	ø18	ø10	ø12.5	ø14.5	ø16	ø18
22							10x30 : 0.21				
27							10x35 : 0.24				
33							10x40 : 0.28				
39								12.5x30 : 0.32			
47	10x30 : 0.27							12.5x35 : 0.37			
56	10x35 : 0.30							12.5x40 : 0.42	14.5x30 : 0.42		
68	10x40 : 0.35								14.5x35 : 0.48		
82		12.5x30 : 0.40							14.5x35 : 0.52	16x30 : 0.50	
100		12.5x35 : 0.46								16x35 : 0.58	18x30 : 0.58
120		12.5x40 : 0.53	14.5x30 : 0.53							16x40 : 0.66	18x35 : 0.67
150			14.5x35 : 0.62	16x30 : 0.62							18x40 : 0.77
180			14.5x40 : 0.72	16x35 : 0.72	18x30 : 0.72						18x45 : 0.88
220				16x40 : 0.83	18x35 : 0.83						
270					18x40 : 0.95						
330					18x45 : 1.07						

Cap(μF)	WV øD	420					450				
		ø10	ø12.5	ø14.5	ø16	ø18	ø10	ø12.5	ø14.5	ø16	ø18
15							10x30 : 0.15				
18	10x30 : 0.17						10x35 : 0.18				
22	10x35 : 0.20						10x40 : 0.21				
27	10x40 : 0.23							12.5x30 : 0.25			
33		12.5x30 : 0.27						12.5x35 : 0.28			
39		12.5x35 : 0.31						12.5x40 : 0.32	14.5x30 : 0.32		
47		12.5x40 : 0.36	14.5x30 : 0.36						14.5x35 : 0.38	16x30 : 0.38	
56			14.5x35 : 0.43	16x30 : 0.43					14.5x40 : 0.44	16x35 : 0.44	
68			14.5x40 : 0.51	16x35 : 0.51	18x30 : 0.51					16x40 : 0.49	18x30 : 0.48
82				16x40 : 0.57	18x30 : 0.57						18x35 : 0.55
100					18x35 : 0.61						18x40 : 0.65
120					18x40 : 0.66						18x45 : 0.74

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

Size øDxL(mm) ↑
 Ripple Current (A r.m.s./105°C, 120Hz) ↑

◆ MULTIPLIER FOR RIPPLE CURRENT

(1) Temperature coefficient

Ambient Temperature(C)	105	85	65 ≥
Coefficient	1.0	1.7	2.1

(2) Frequency coefficient

Frequency		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