

**AXF SERIES****105°C Low profile, Snap-in Terminal Type****◆ FEATURES**

- Load Life : 105°C 3000 hours, with 20mm height.
- Smaller size with higher ripple current endurance than MXF series.
- RoHS compliance.

**◆ SPECIFICATIONS**

Items	Characteristics																									
Category Temperature Range	-40 ~ +105°C	-25 ~ +105°C																								
Rated Voltage Range	10 ~ 100V.DC	160 ~ 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 ( $\mu$ A)      V= Rated Voltage (V)      C= Rated Capacitance ( $\mu$ F)																									
Dissipation Factor(MAX) (tan $\delta$ )	<table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>80</th> <th>100</th> <th>160~400</th> <th>420~450</th> <th>(20°C, 120Hz)</th> </tr> </thead> <tbody> <tr> <td>tan<math>\delta</math></td> <td>0.55</td> <td>0.50</td> <td>0.45</td> <td>0.40</td> <td>0.35</td> <td>0.30</td> <td>0.25</td> <td>0.20</td> <td>0.15</td> <td>0.20</td> <td></td> </tr> </tbody> </table>		Rated Voltage (V)	10	16	25	35	50	63	80	100	160~400	420~450	(20°C, 120Hz)	tan $\delta$	0.55	0.50	0.45	0.40	0.35	0.30	0.25	0.20	0.15	0.20	
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tan $\delta$	0.55	0.50	0.45	0.40	0.35	0.30	0.25	0.20	0.15	0.20																
Impedance Ratio(MAX)	<table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>10 ~ 100</th> <th>160 ~ 250</th> <th>315 ~ 450</th> <th>(120Hz)</th> </tr> </thead> <tbody> <tr> <td>Z(-25°C) / Z(20°C)</td> <td>3</td> <td>3</td> <td>8</td> <td></td> </tr> <tr> <td>Z(-40°C) / Z(20°C)</td> <td>12</td> <td>-</td> <td>-</td> <td></td> </tr> </tbody> </table>		Rated Voltage (V)	10 ~ 100	160 ~ 250	315 ~ 450	(120Hz)	Z(-25°C) / Z(20°C)	3	3	8		Z(-40°C) / Z(20°C)	12	-	-										
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Endurance	After applying rated voltage with rated ripple current for 3000hrs at 105°C, the capacitors shall meet the following requirements. <table border="1"> <tbody> <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> </tbody> </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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**◆ MULTIPLIER FOR RIPPLE CURRENT**

Frequency coefficient

Frequency (Hz)		60(50)	120	500	1k	10k $\leq$
Coefficient	10~100WV	0.90	1.00	1.05	1.10	1.15
	160~250WV	0.80	1.00	1.20	1.30	1.50
	315~450WV	0.80	1.00	1.20	1.25	1.40

**◆ PART NUMBER**

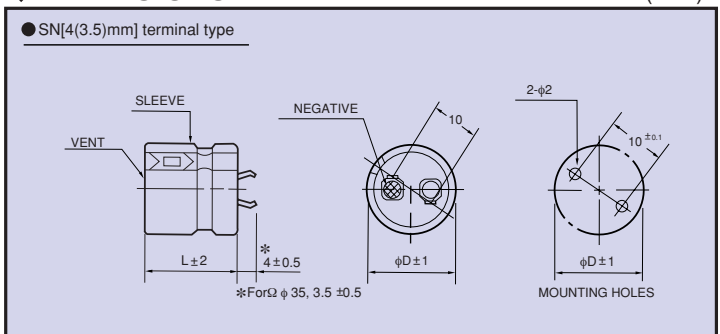
<input type="text"/>	<input type="text"/>	AXF	<input type="text"/>	<input type="text"/>	OOE	SN	DxL
Rated Voltage	Series		Rated Capacitance	Capacitance Tolerance	Option	Terminal Code	Case Size

**◆ Option**

	Code
without plate	OOE
with plate	Blank

**◆ DIMENSIONS**

(mm)



**◆ STANDARD SIZE, RATED RIPPLE CURRENT**

Cap(μF) \ WV	10	16	25	35	50	63	80	100
330								20 × 20; 0.60
390								20 × 20; 0.71
470							20 × 20; 0.65	22 × 20; 0.78
560							20 × 20; 0.70	25 × 20; 0.95
680						20 × 20; 0.83	22 × 20; 0.84	25 × 20; 1.09
820						22 × 20; 0.99	25 × 20; 1.04	30 × 20; 1.32
1000					20 × 20; 0.87	22 × 20; 1.10	25 × 20; 1.19	
1200					22 × 20; 1.02	25 × 20; 1.20	30 × 20; 1.44	
1500				20 × 20; 0.80	25 × 20; 1.15	30 × 20; 1.47		
1800				22 × 20; 0.94	25 × 20; 1.34	30 × 20; 1.52		
2200			20 × 20; 0.98	22 × 20; 1.04	30 × 20; 1.60			
2700			22 × 20; 1.08	25 × 20; 1.29				
3300		20 × 20; 1.06	22 × 20; 1.29	30 × 20; 1.45				
3900		20 × 20; 1.25	25 × 20; 1.58					
4700	20 × 20; 0.98	22 × 20; 1.38	25 × 20; 1.61					
5600	20 × 20; 1.16	25 × 20; 1.68						
6800	22 × 20; 1.31	25 × 20; 1.80						
8200	25 × 20; 1.59							
10000	25 × 20; 1.77							

Cap(μF) \ WV	160	180	200	220	250	315	350	385
39								20 × 20; 0.35
47							20 × 20; 0.38	20 × 20; 0.38
56						20 × 20; 0.41	20 × 20; 0.40	22 × 20; 0.42
68						22 × 20; 0.48	22 × 20; 0.45	25 × 20; 0.50
82						22 × 20; 0.51	25 × 20; 0.54	25 × 20; 0.52
100					20 × 20; 0.59	25 × 20; 0.57	25 × 20; 0.57	30 × 20; 0.61
120			20 × 20; 0.63	20 × 20; 0.60	22 × 20; 0.65	30 × 20; 0.65	30 × 20; 0.65	30 × 20; 0.64
150		20 × 20; 0.66	20 × 20; 0.66	22 × 20; 0.70	25 × 20; 0.74	30 × 20; 0.70	35 × 20; 0.78	35 × 20; 0.80
180	20 × 20; 0.69	22 × 20; 0.80	22 × 20; 0.80	25 × 20; 0.80	25 × 20; 0.77	35 × 20; 0.85	35 × 20; 0.85	
220	22 × 20; 0.81	25 × 20; 0.90	25 × 20; 0.87	25 × 20; 0.85	30 × 20; 0.95	35 × 20; 0.90		
270	25 × 20; 0.98	25 × 20; 0.95	25 × 20; 0.95	30 × 20; 1.02	30 × 20; 1.00			
330	25 × 20; 1.02	30 × 20; 1.15	30 × 20; 1.15	30 × 20; 1.12	35 × 20; 1.16			
390	30 × 20; 1.25	30 × 20; 1.20	30 × 20; 1.20	35 × 20; 1.25				
470	30 × 20; 1.30	35 × 20; 1.36	35 × 20; 1.41					
560	35 × 20; 1.46	35 × 20; 1.43						
680	35 × 20; 1.51							

Cap(μF) \ WV	400	420	450
27			20 × 20; 0.26
33		20 × 20; 0.30	20 × 20; 0.30
39	20 × 20; 0.34	20 × 20; 0.34	22 × 20; 0.36
47	22 × 20; 0.39	22 × 20; 0.38	25 × 20; 0.41
56	22 × 20; 0.40	25 × 20; 0.45	25 × 20; 0.43
68	25 × 20; 0.49	25 × 20; 0.48	30 × 20; 0.50
82	30 × 20; 0.55	30 × 20; 0.53	30 × 20; 0.53
100	30 × 20; 0.60	30 × 20; 0.58	35 × 20; 0.61
120	35 × 20; 0.75	35 × 20; 0.70	
150	35 × 20; 0.80		

↑ Ripple Current (A r.m.s./120Hz, 105°C)  
 ↑ Case Size fD × L(mm)