



Screw Terminal Type

Series

CWH

FEATURES

Small case size, high rated voltage, capacitance and ripple current, stable and reliable performance, forming

Complete sets of unclear electric station.

1. Suit for use in electronic and industrial equipments such as computer, programming control exchanger for

Power supplies filtering and energy stargazing.

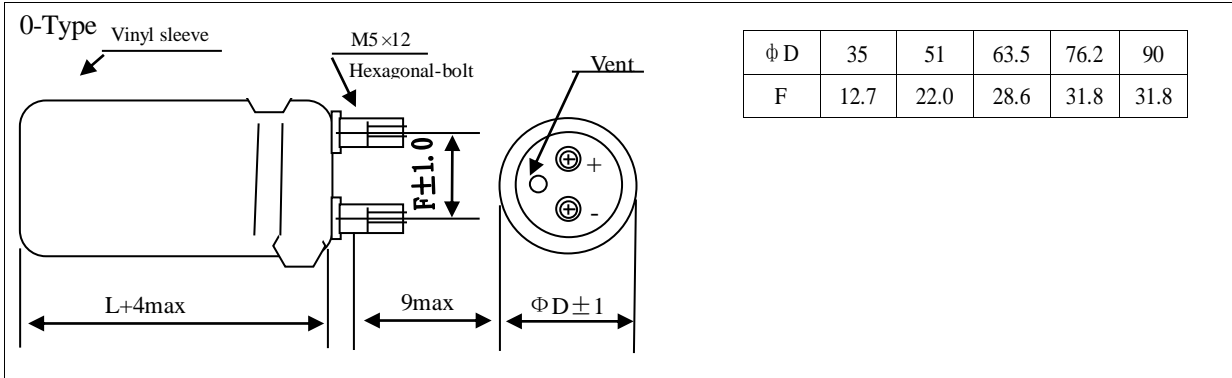
SPECIFICATIONS

Item	Performance Characteristics																																																																					
Operating Temperature Range	-40 to +105°C	-25 to 105°C																																																																				
Rated Working voltage Range	16 to 100V	160 to 450V DC																																																																				
Nominal Capacitance Range	470~470000(uF)																																																																					
Capacitance Tolerance	-20%~+20% (120Hz, +20°C)																																																																					
Leakage Current	$I \leq 3 \sqrt{CV}$ or 5(mA) after 5 minutes application of rated working voltage at +20°C, Which is smaller																																																																					
Dissipation Factor $\tan \delta$ (120Hz+20°C)	<table border="1"> <thead> <tr> <th rowspan="2">Working voltage(V) Dimension ϕ</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>80</th> <th>100</th> <th>160~250</th> <th>350~450</th> </tr> </thead> <tbody> <tr> <td>35</td> <td>0.7</td> <td>0.45</td> <td>0.45</td> <td>0.3</td> <td>0.25</td> <td>0.25</td> <td>0.2</td> <td>0.15</td> <td>0.25</td> </tr> <tr> <td>51</td> <td>1.0</td> <td>0.6</td> <td>0.6</td> <td>0.45</td> <td>0.35</td> <td>0.3</td> <td>0.2</td> <td>0.15</td> <td>0.25</td> </tr> <tr> <td>63.5</td> <td>1.3</td> <td>0.8</td> <td>0.7</td> <td>0.5</td> <td>0.4</td> <td>0.35</td> <td>0.25</td> <td>0.2</td> <td>0.25</td> </tr> <tr> <td>76.2</td> <td>2.0</td> <td>1.2</td> <td>0.9</td> <td>0.7</td> <td>0.5</td> <td>0.4</td> <td>0.25</td> <td>0.25</td> <td>0.25</td> </tr> <tr> <td>90</td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>0.25</td> <td>0.25</td> </tr> </tbody> </table>										Working voltage(V) Dimension ϕ	16	25	35	50	63	80	100	160~250	350~450	35	0.7	0.45	0.45	0.3	0.25	0.25	0.2	0.15	0.25	51	1.0	0.6	0.6	0.45	0.35	0.3	0.2	0.15	0.25	63.5	1.3	0.8	0.7	0.5	0.4	0.35	0.25	0.2	0.25	76.2	2.0	1.2	0.9	0.7	0.5	0.4	0.25	0.25	0.25	90		-	-	-	-	-	-	0.25	0.25
	Working voltage(V) Dimension ϕ	16	25	35	50	63	80	100	160~250	350~450																																																												
		35	0.7	0.45	0.45	0.3	0.25	0.25	0.2	0.15	0.25																																																											
	51	1.0	0.6	0.6	0.45	0.35	0.3	0.2	0.15	0.25																																																												
	63.5	1.3	0.8	0.7	0.5	0.4	0.35	0.25	0.2	0.25																																																												
	76.2	2.0	1.2	0.9	0.7	0.5	0.4	0.25	0.25	0.25																																																												
90		-	-	-	-	-	-	0.25	0.25																																																													
Low Temperature characteristics	Impedance ratio max. at 120Hz																																																																					
	Working voltage(V)		16~100			160~450																																																																
	Z-25°C/Z+20°C		-			8																																																																
Z-40°C/Z+20°C		12			-																																																																	
Frequency coefficient	Frequency(Hz)		60	120	360	1k	10k~																																																															
	16~100V		0.90	1.00	1.08	1.15	1.15																																																															
	160~250V		0.88	1.00	1.08	1.15	1.20																																																															
	350~400V		0.82	1.00	1.20	1.35	1.40																																																															
High temperature Loading	Test conditions																																																																					
	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied for 2000 hours at 105°C																																																																					
Shelf life	Post test requirements at +20°C																																																																					
	Leakage current		: \leq Initial specified value																																																																			
	Capacitance change		: $\leq \pm 15\%$ of initial measured value																																																																			
	Tan δ		: $\leq 175\%$ of initial specified value																																																																			
Others	At 105°C no voltage applied after 1000hours the capacitors shall meet the following limite																																																																					
	Post test requirements at+20°C																																																																					
	Leakage current		: \leq of Initial specified value																																																																			
	Capacitance change		: $\leq \pm 15\%$ of initial measured value																																																																			
Tan δ		: $\leq 175\%$ of initial specified value																																																																				
JIS C-5141 JIS C-5102																																																																						



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CASE SIZE TABLE



DIMENSIONS

Voltage Cap.(uF) Code SV		Φ D × L (mm)									
		16V(1C)		25V(1E)		35V(1V)		50V(1H)		63V(1J)	
		20		32		44		63		79	
10000	109									35×80	4.1
15000	159							35×80	5.4	35×100	5.5
22000	229							35×100	6.1	35×120	7.1
33000	339			35×80	6.0	35×80	6.2	51×70	7.0	51×80	8.8
47000	479	35×80	6.4	35×100	8.2	35×120	8.2	51×90	8.6	51×120	11.7
68000	689	35×100	7.9	35×120	9.4	35×80	9.3	51×100	11.0	63.5×100	15.0
100000	10T	35×120	10.6	51×100	12.0	51×100	13.6	63.5×100	14.2	63.5×140	20.8
150000	15T	51×100	11.5	51×120	15.3	63.5×100	14.5	76.2×120	18.6	76.2×140	26.0
220000	22T	51×120	15.6	63.5×100	18.9	76.2×100	16.8				
330000	33T	63.5×100	21.1	76.2×120	23.2	76.2×140	24.8				
470000	47T	76.2×120	30.5							Case Size	Allowable ripple

Allowable Ripple (A rms) at 105°C 120Hz

Voltage Cap.(uF) Code SV		Allowable Ripple (A rms) at 105°C 120Hz									
		80V(1K)		100V(2A)		160V(2C)		200V(2D)		250V(2E)	
		100		125		200		250		300	
1000	108									35×80	2.4
1500	158							35×80	2.9	35×100	3.0
2200	228					35×80	3.2	35×100	3.5	51×80	4.0
3300	338					35×120	4.7	51×80	4.8	51×100	5.4
4700	478			35×80	3.8	51×80	5.0	51×100	6.3	63.5×100	7.3
6800	688			35×100	4.5	51×100	6.4	51×140	7.3	63.5×120	8.9
10000	109	35×80	4.2	35×120	5.3	63.5×100	9.1	63.5×120	9.8	76.2×120	11.8
15000	159	35×120	6.0	51×80	6.0	76.2×100	12.0	76.2×120	13.0	90×140	16.4
22000	229	51×80	6.5	51×100	6.8	76.2×140	16.9	90×140	15.9		
33000	339	51×120	9.2	51×140	4.0	90×140	19.2				
47000	479	63.5×100	12.7	63.5×140	14.4						
68000	689	63.5×140	15.5	90×140	18.2						
100000	10T	76.2×140	21.3							Case Size	Allowable ripple

Allowable Ripple (A rms) at 105°C 120Hz

Voltage Cap.(uF) Code SV		Allowable Ripple (A rms) at 105°C 120Hz					
		350V(2V)		400V(2G)		450V(2W)	
		400		450		500	
470	477			35×80	2.0	35×80	2.1
680	687	35×80	2.5	35×100	2.6	35×120	2.9
1000	108	51×60	3.3	51×70	3.3	51×80	3.6
1200	128	51×70	3.6	51×80	4.2	51×100	4.2
1500	158	51×80	4.5	51×100	4.8	51×110	5.1



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1800	188	35×90	5.1	51×110	5.4	63.5×110	6.6
2200	228	35×110	6.0	51×130	6.3	63.5×130	7.5
2700	278	51×130	6.9	63.5×100	7.2	63.5×140	8.4
3300	338	63.5×100	8.1	63.5×130	8.4	76.2×140	9.6
4700	478	76.2×100	9.6	76.2×130	10.5	76.2×150	13.2
5600	568	76.2×140	11.4	76.2×150	12.3	76.2×150	14.4
6800	688	76.2×130	13.5	76.2×150	13.5	90×150	15.9
8200	828	76.2×150	15.0	90×150	15.9	90×190	17.5
10000	109	90×150	16.8	90×150	17.7		
12000	129	90×150	18.4	90×190	20.7		
15000	159	90×190	22.8			Case Size	Allowable ripple

Allowable Ripple (A rms)at 105°C 120Hz