

Features

- Screw terminal series for Load life 3000 hours at 105°C.
- High ripple capability.
- High reliability.

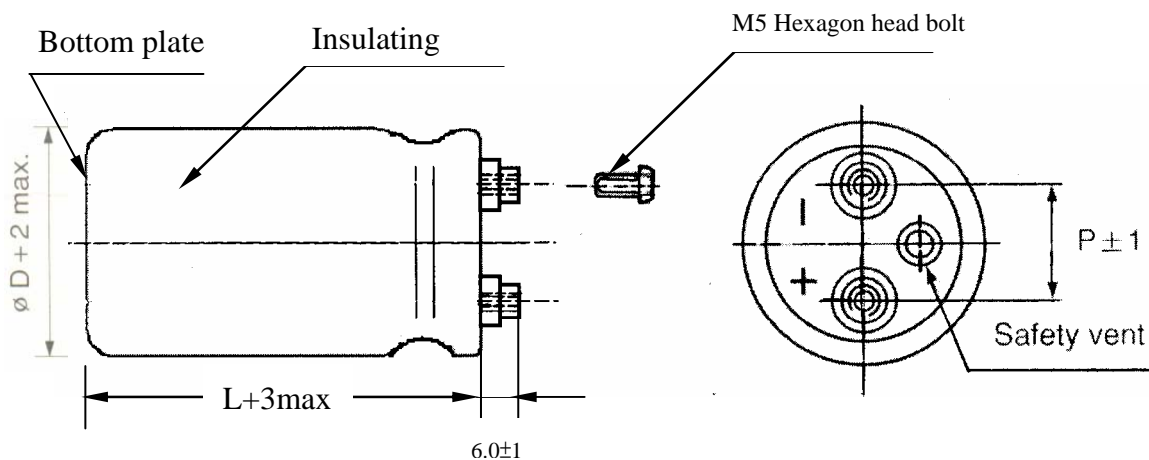
Application :

- Designed for use as input filter capacitor for current U.P.S.
- Suited for smoothing circuits for general purpose inverters and control circuits for F.A. machines.

Characteristics

Voltage Range	10 ~ 100V	160 ~ 400V									
Capacitance Range	2700 ~ 560000uF	220 ~ 47000uF									
Temperature Range	-40 ~ +105°C	-25 ~ +105°C									
Capacitance Tolerance	+20% -20% (at 20°C, 120Hz)										
Leakage Current	$I \leq (0.02CV) \mu A$ max C: Capacitance, V:W.V. (After 5 minutes)										
Dissipation Factor(tan δ) (at 20°C, 120Hz)	Less than the value under table (%)										
	∅D \\\ W.V.	10	16	25	35	50	63	80	100	160 ~ 250	315 ~ 400
	36	0.75	0.6	0.4	0.3	0.25	0.2	0.2	0.15	0.15	0.2
	51	1.0	0.7	0.5	0.5	0.3	0.25	0.2	0.2	0.15	0.2
	64	1.3	0.8	0.7	0.6	0.5	0.3	0.25	0.25	0.2	0.25
	77	1.5	1.0	0.8	0.7	0.6	0.4	0.3	0.25	0.2	0.25
	90	1.5	1.0	0.8	0.7	0.6	0.4	0.3	0.25	0.2	0.25
Stability at Low Temperature	Impedance ratio at 120Hz between the -25°C or -40°C value and 20°C value shall not exceed :										
	$Z_{-25°C} / Z_{20°C}$						3 max				
	$Z_{-40°C} / Z_{20°C}$						12 max				
Load Life	The following specifications shall satisfied when the capacitors are restored to 20°C after rated working voltage applied for 3,000 hours at 105°C. operating temperature with the rated ripple current applied.										
	Capacitance change		$\leq \pm 15\%$ of the initial value.								
	Dissipation factor		$\leq \pm 175\%$ of the initial specified value								
	Leakage current		\leq The initial specified value.								
Shelf Life	After storage for 1000 hours at 105°C with no voltage applied, the capacitor shall meet the specified limit in load life.										

Diagram of dimensions



Multiplier for Ripple Current VS Frequency

Cap.(uF) \\\ (Hz)	60	120	400	1K	10K \leq
10~50 WV	0.8	1	1.03	1.05	1.08
63~100 WV	0.8	1	1.05	1.07	1.10
160~450 WV	0.8	1	1.10	1.13	1.18

Multiplier for R.C. vs Temperature

Temp.(°C)	70 \geq	85	105
Multiplier	2.0	1.7	1.0

Standard Products Table

CAP μF	10		16		25		35		50		63		80		
	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	
3300													36x53	2.9	
3900													36x65	3.1	
4700												36x53	3.0	36x83	3.4
5600												36x65	3.3	36x83	3.7
6800							36x53	2.4	36x53	3.4	36x65	3.6	36x83	4.1	
8200							36x53	2.7	36x65	3.7	36x83	4.1	36x101	4.8	
10000							36x53	3.6	36x83	4.0	36x83	4.5	36x121	5.5	
12000							36x65	4.1	36x83	4.8	36x101	5.3	51x83	6.7	
15000					36x53	4.0	36x83	4.5	36x101	5.2	36x121	6.1	51x83	7.2	
18000					36x65	4.4	36x83	4.8	36x101	5.4	51x83	7.1	51x101	7.3	
22000			36x53	3.8	36x83	4.9	36x121	6.3	36x121	7.1	51x83	7.1	51x121	8.6	
27000	36x53	4.2	36x65	4.8	36x83	5.1	36x121	6.4	51x83	7.1	51x101	8.3	64x101	9.6	
33000	36x65	5.2	36x83	4.9	36x101	6.2	51x83	6.7	51x101	8.8	51x121	9.8	64x121	11.0	
39000	36x65	5.7	36x83	5.5	36x101	7.1	51x83	8.0	51x101	8.9	64x101	10.6	64x141	12.8	
47000	36x83	6.3	36x101	6.5	36x121	8.5	51x101	9.4	51x121	11.1	64x121	12.3	77X101	15.0	
56000	36x83	7.1	36x101	6.6	51x83	9.5	51x101	9.8	64x101	11.8	64x141	14.4	77X121	16.2	
68000	36x101	7.2	36x12	8.0	51x101	10.2	51x121	10.8	64x21	14.3	77X101	15.2	77X141	19.4	
82000	36x121	8.6	51x83	8.0	51x101	11.4	64x101	11.9	77X101	14.7	77X121	16.8	77X151	20.4	
100000	51x83	9.7	51x101	10.7	51x121	12.4	64x121	14.7	77X101	15.5	77X141	20.4			
120000	51x83	10.5	51x101	10.8	64x101	13.0	77X101	14.7	77X121	18.1					
150000	51x101	12.7	51x121	11.9	64x121	15.6	77X121	17.0	77X141	22.2					
180000	51x121	13.3	64x101	13.5	77X101	15.9	77X141	19.0							
220000	64x101	13.8	64x121	15.8	77X121	19.5	77X151	22.9							
270000	64x121	15.2	77X101	16.6	77X141	20.2									
330000	77X101	17.1	77X121	23.1	77X151	24.7									
390000	77X101	18.5	77X141	23.9											
470000	77X121	19.0	77X151	25.4											
560000	77X141	22.9													

CAP μF	100		160		200		250		315		350		400		
	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	
220											36x53	1.0	36x53	1.1	
270										36x53	1.0	36x53	1.0		
330										36x53	1.2	36x65	1.2	36x101	1.5
390										36x65	1.3	36x83	1.4		
470							36x53	1.3	36x83	1.5	36x101	1.5	51x83	2.1	
560					36x53	1.4	36x65	1.6	36x83	1.6	36x101	1.7			
680					36x53	1.5	36x83	1.7	36x101	1.9	51x83	2.3	51x101	2.7	
820			36x53	1.4	36x83	1.9	36x83	1.9	36x121	2.2	51x101	2.4			
1000			36x65	1.9	36x83	2.2	36x101	2.3	51x83	2.3	51x101	2.7	51x101	4.2	
1200			36x83	2.3	36x83	2.3	36x101	2.4	51x101	2.7	51x101	3.0			
1500			36x83	2.6	36x101	2.9	36x121	2.9	51x101	3.1	51x121	3.5	51x121	5.7	
1800			36x83	2.6	36x101	2.9	36x121	3.0	51x121	3.6	64x101	4.1			
2200	36x53	2.9	36x101	3.2	36x121	3.3	51x101	3.8	64x101	4.2	64x121	4.5	64x121	7.3	
2700	36x65	3.4	36x121	3.2	51x83	3.8	51x121	4.5	64x121	4.3	77X101	5.3			
3300	36x83	3.9	36x121	3.7	51x101	4.7	64x101	5.2	77X101	4.9	77X121	6.2	77x141	10.1	
3900	36x83	4.2	51x101	4.3	51x121	5.4	64x121	5.2	77X121	5.8	77X141	6.8			
4700	36x83	4.6	51x101	4.8	64x101	6.2	64x121	5.7	77X121	6.3	77X141	7.8			
5600	36x101	4.9	51x121	5.5	64x101	6.3	77X101	6.4	77X141	7.3					
6800	36x121	5.5	64x101	6.3	64x121	7.3	77X121	7.6							
8200	51x83	6.2	64x121	7.1	77X101	8.5	77X141	8.3							
10000	51x101	6.7	77X101	7.9	77X121	9.5									
12000	51x101	7.3	77X121	9.0	77X141	10.5									
15000	51x121	8.6	77X141	11.3											
18000	64x101	8.9													
22000	64x121	10.3													
27000	64x141	12.1													
33000	77X121	14.1													
39000	77X141	16.5													
47000	77X141	18.3													

Ripple Current (A, rms) at 105°C 120Hz