

**Screw Terminal Type(螺釘型), Long Life Assurance(長壽命保證)**

**FEATURES**

1. High voltage and capacitance, high ripple, high reliability, guarantee 5000 hrs load life at 85°C.
2. Suitable for use in changeable current circuits in changeable frequencies air-condition etc.



**SPECIFICATIONS**

Item	Performance Characteristics									
Operating Temperature Range	-40 to +85°C					-25 to +85°C				
Rated Working Voltage Range	10 to 100V					160 to 550V				
Nominal Capacitance Range	1000 to 1500000µF									
Capacitance Tolerance	±20% (120Hz, +20°C)									
Leakage Current	I = 0.02CV or 5(mA) after 5 minutes application of rated working voltage at +20°C, whichever is smaller									
Dissipation Factor tan δ (120Hz, +20°C)	φ d	L \ V	10	16	25	35	50	63	80	100
	35	80 ~ 100	0.6	0.4	0.4	0.3	0.3	0.3	0.2	0.1
		120	0.7	0.6	0.4	0.3	0.3	0.3	0.2	0.2
	51	70 ~ 100	0.9	0.6	0.5	0.4	0.3	0.3	0.2	0.2
		120 ~ 140	1	0.8	0.5	0.4	0.3	0.3	0.2	0.2
	63.5	100	0.9	--	--	0.5	0.4	0.3	0.3	--
		120 ~ 140	1.2	0.8	0.7	--	--	0.3	0.3	0.2
	76.2	100	1.6	--	--	0.7	--	--	--	--
		120 ~ 140	1.6	1.1	0.8	0.8	0.6	0.5	0.4	0.3
	90	140 ~ 220	2	1.5	1	0.9	0.8	0.6	0.4	0.3
	100	250	2.4	1.5	1	0.9	0.8	0.6	0.4	0.3
	φ d	L \ V	160 ~ 250	350 ~ 450						
	35	80 ~ 100	0.15	0.25						
		120	0.15	0.25						
	51	70 ~ 100	0.15	0.25						
		120 ~ 140	0.15	0.25						
	63.5	100	0.2	0.25						
		120 ~ 140	0.2	0.25						
	76.2	100	0.2	0.25						
		120 ~ 140	0.2	0.25						
90	140 ~ 220	0.25	0.25							
100	250	0.25	0.25							
Low Temperature Characteristics	Impedance ratio max. at 120Hz									
	Working Voltage (V)	10 ~ 100	160 ~ 550							
	Z-25°C / Z+20°C	--	8							
	Z-40°C / Z+20°C	12	--							
High Temperature Loading	Test conditions					Post test requirements at +20°C				
	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage with the rated ripple current applied for 5000 hours at 85°C					Leakage current : ≤ Initial specified value Cap. change : within ±20% of initial measured value tan δ : ≤ 200% of initial specified value				
Shelf Life	At 85°C no voltage applied after 1000 hours the capacitors shall meet the following limits									
	Leakage current : ≤ Initial specified value Cap. change : within ±20% of initial measured value tan δ : ≤ 200% of initial specified value									
Others	JIS C - 5101 (IEC 60384)									

WX

Large Can Aluminum Electrolytic Capacitors

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CASE SIZE TABLE

Method mount metal bracket

Unit : mm

Method to mount resin bushing (φ76.2) (Apply to L=150 or more)

Unit : mm

\* B  
3-leg brackets for φ90 capacitors have different hole shapes from the ordinary ones illustrated below.

Unit : mm

Method to mount resin bushing (φ90) (Apply to L=150 or more)

Unit : mm

φ Screw terminal type (φ36)

Unit : mm

**Dimension of terminal pitch (w) and (l) and Nominal dia. of bolt**

φD	w	l	α	Nominal dia. of bolt
35	12.7	6	3	M5
51	22.0	6	3	M5
63.5	28.6	6	3	M5
76.2	31.8	6	3	M5
90	31.8	6	3	M5

Dimension of mounting bracket

Voltage (Code)		3 - Leg				2 - Leg				
Symbol	φD	51	63.5	76.2	90	35	51	63.5	76.2	90
P		32.5	38.1	44.5	50.8	24	33.2	40.5	46.5	53
A		38.5	43	49.2	58.5	29	40	46.5	53	59
T		7.5	8.0	7.0	8.0	6.0	6.0	7.0	6.0	6.0
S		5.0	5.0	5.0	5.0	3.5	4.5	4.5	4.5	4.5
U		12	14	14	18	10	14	14	14	14
θ°		60	60	60	60	30	30	30	30	30
H		20	25	30	35	15	25	35	35	35
h		15	20	24	25	10	15	20	20	20

RIPPLE CURRENT MULTIPLIER

Frequency Coefficient					
Freq.(Hz)	60	120	360	1K	10k ~
10 ~ 100V	0.9	1	1.08	1.15	1.2
160 ~ 250V	0.88	1	1.08	1.15	1.2
350 ~ 550V	0.8	1	1.1	1.3	1.4

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**DIMENSIONS**

Voltage (Code)		10V (1A)		16V (1C)		25V (1E)		35V (1V)	
SV		13		20		32		44	
Cap.(μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
33000	339					35 x 80	6.2	35 x 80	6.2
47000	479	35 x 80	6.0	35 x 80	6.4	35 x 100	8.2	35 x 120	8.2
68000	689	35 x 80	7.2	35 x 100	7.9	35 x 120	9.4	51 x 80	9.3
100000	10T	35 x 100	8.8	35 x 120	10.6	51 x 100	12.0	51 x 120	13.6
150000	15T	51 x 80	10.7	51 x 100	11.5	51 x 120	15.3	63.5 x 100	14.5
220000	22T	51 x 100	13.0	51 x 120	15.6	63.5 x 120	18.9	76.2 x 100	16.8
330000	33T	63.5 x 100	15.9	63.5 x 120	25.1	76.2 x 120	24.8	76.2 x 140	24.8
470000	47T	63.5 x 120	19.0	76.2 x 120	30.5	90 x 170	30.8	90 x 170	32.6
680000	68T	76.2 x 120	22.8	90 x 170	33.0	90 x 220	33.3	90 x 220	35.2
1000000	10M	90 x 170	27.7	90 x 220	36.0				
1500000	15M	90 x 220	33.9						

Maximum Allowable Ripple Current (A rms) at 85°C 120Hz

Case Size φD x L(mm)

Voltage (Code)		50V (1H)		63V (1J)		80V (1K)		100V (2A)	
SV		63		79		100		125	
Cap.(μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
4700	478							35 x 80	3.8
6800	688							35 x 100	4.5
10000	109			35 x 80	4.1	35 x 80	4.2	35 x 120	5.3
15000	159	35 x 80	5.4	35 x 100	5.5	35 x 120	6.0	51 x 80	6.0
22000	229	35 x 100	6.1	35 x 120	7.1	51 x 80	6.5	51 x 100	6.8
33000	339	51 x 70	7.0	51 x 80	8.8	51 x 120	9.2	51 x 140	10.0
47000	479	51 x 90	8.6	51 x 120	11.7	63.5 x 100	12.7	63.5 x 140	14.4
68000	689	51 x 100	11.0	63.5 x 100	15.0	63.5 x 140	15.5	76.2 x 140	18.2
100000	10T	63.5 x 100	14.2	63.5 x 140	20.8	76.2 x 140	21.3	90 x 170	22.1
150000	15T	76.2 x 120	18.6	76.2 x 140	26.0	90 x 170	26.5	90 x 220	27.0
220000	22T	90 x 140	20.3	90 x 170	28.3	90 x 220	28.9		
330000	33T	90 x 170	25.3	90 x 220	31.2				
470000	47T	90 x 220	33.2						

Maximum Allowable Ripple Current (A rms) at 85°C 120Hz

Case Size φD x L(mm)

Voltage (Code)		160V (2C)		200V (2D)		250V (2E)		350V (2V)	
SV		200		250		300		400	
Cap.(μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
1000	108					35 x 80	2.4		
1500	158			35 x 80	2.9	35 x 100	3.0		
2200	228	35 x 80	3.2	35 x 100	3.5	51 x 80	4.0	51 x 100	7.7
2700	278							51 x 120	9.3
3300	338	35 x 120	4.7	51 x 80	4.8	51 x 100	5.4	51 x 130	10.8
3900	398							63.5 x 120	12.1
4700	478	51 x 80	5.0	51 x 100	6.3	63.5 x 100	7.3	63.5 x 130	14.0
5600	568							63.5 x 160	16.6
								76.2 x 120	16.1
6800	688	51 x 100	6.4	51 x 140	7.3	63.5 x 120	8.9	63.5 x 190	20
								76.2 x 130	18.6
8200	828							76.2 x 160	22.2
10000	109	63.5 x 100	9.1	63.5 x 120	9.8	76.2 x 120	11.8	76.2 x 170	25.2
12000	129							90 x 160	29.1
15000	159	76.2 x 100	12.0	76.2 x 120	13.0	90 x 140	16.4	90 x 190	35.7
18000	189								
22000	229	76.2 x 140	16.9	90 x 140	15.9	90 x 170	17.9		
33000	339	90 x 140	19.2	90 x 170	19.5	90 x 220	19.7		
47000	479	90 x 170	20.6	90 x 220	20.9				
68000	689	90 x 220	22.3						

Maximum Allowable Ripple Current (A rms) at 85°C 120Hz

Case Size φD x L(mm)

WX

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**DIMENSIONS**

Voltage (Code)		400V (2G)		450V (2W)		500V (2H)		550V (25)	
SV		450		500		550		600	
Cap.(μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
1000	108					51 x 110	4.2	51 x 130	4.3
1200	128			51 x 100	5.7	63.5 x 90	4.8	63.5 x 110	5.0
1500	158			51 x 100	6.3	63.5 x 90	5.5	63.5 x 130	6.0
1800	188	51 x 100	7.0	51 x 120	7.6	63.5 x 110	6.5	76.2 x 110	6.7
2200	228	51 x 110	8.0	51 x 130	8.8	63.5 x 130	7.7	76.2 x 130	8.0
2700	278	51 x 130	9.8	63.5 x 120	10.1	76.2 x 110	8.8	76.2 x 150	9.4
3300	338	63.5 x 120	11.1	63.5 x 130	11.7	76.2 x 130	10.4	76.2 x 170	11.0
3900	398	63.5 x 130	12.7	63.5 x 160	13.8	76.2 x 150	12.1	90 x 150	12.5
				76.2 x 120	13.4				
4700	478	63.5 x 160	15.2	63.5 x 190	16.7	90 x 130	13.7	90 x 170	14.5
		76.2 x 120	14.7	76.2 x 130	15.5				
5600	568	63.5 x 190	18.2	76.2 x 160	18.3	90 x 150	15.9	90 x 190	16.6
		76.2 x 130	16.9						
6800	688	76.2 x 160	20.2	76.2 x 170	20.7	90 x 170	18.5	90 x 220	19.5
8200	828	76.2 x 170	22.8	90 x 160	24.1	90 x 190	21.4		
10000	109	90 x 160	26.6	90 x 170	27.8				
12000	129	90 x 170	30.0						

Maximum Allowable Ripple Current (A rms) at 85°C 120Hz

Case Size φD x L(mm)