

GN (CD92)



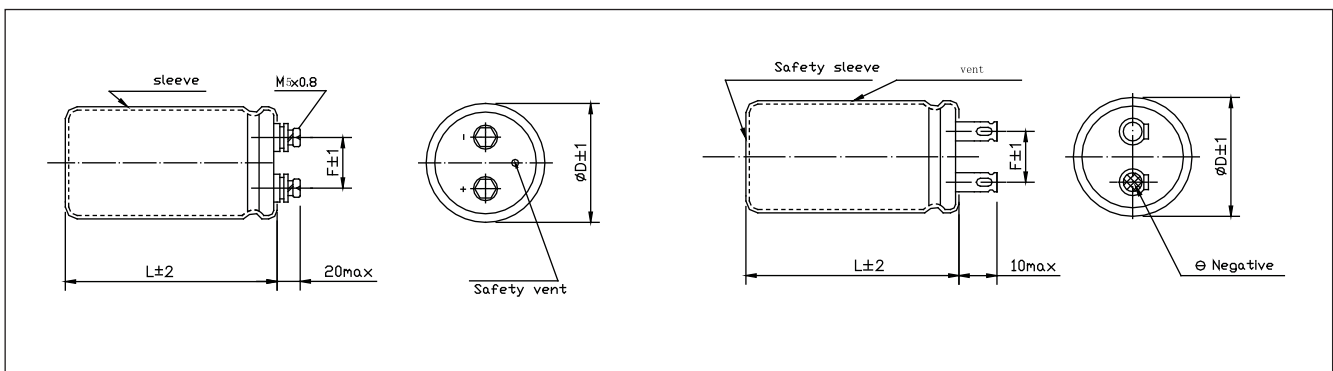
⊙ Low voltage (100V), large capacitance, lug or screw type, low dissipation factor, Low leakage current, small size and high ripple current.

⊙ Adapted to the ROHS directive (2002/95/EC).

Specifications

Item	Performance Characteristics																																								
Operating temperature range	-40°C ~ +85°C																																								
Rated voltage range	10 ~ 100 V																																								
Nominal capacitance range	2200 ~ 1000000 μ F																																								
Capacitance tolerance	\pm 20% (120Hz, +20°C)																																								
Leakage current	$D = 35\text{mm}$ $I \leq 0.02CV$ (μ A) 4mA 2 (at 20°C, after 2 minutes, Whichever is smaller)	$D \geq 51\text{mm}$ $I \leq 0.03CV$ (μ A) 6mA (at 20°C, after 2 minutes, Whichever is smaller)																																							
(tg δ) Dissipation factor (+20°C, 120HZ)	<table border="1"> <thead> <tr> <th>tg δ \ U_R(V) \ D(mm)</th> <th>10</th> <th>16</th> <th>25</th> <th>35 ~ 63</th> <th>80</th> <th>100</th> </tr> </thead> <tbody> <tr> <td>35</td> <td>0.75</td> <td>0.50</td> <td>0.35</td> <td>0.25</td> <td>0.25</td> <td>0.25</td> </tr> <tr> <td>51</td> <td>1.00</td> <td>0.75</td> <td>0.50</td> <td>0.35</td> <td>0.30</td> <td>0.25</td> </tr> <tr> <td>63.5</td> <td>1.50</td> <td>1.00</td> <td>0.75</td> <td>0.50</td> <td>0.35</td> <td>0.35</td> </tr> <tr> <td>76</td> <td>2.00</td> <td>1.50</td> <td>0.75</td> <td>0.50</td> <td>0.40</td> <td>0.35</td> </tr> </tbody> </table>						tg δ \ U _R (V) \ D(mm)	10	16	25	35 ~ 63	80	100	35	0.75	0.50	0.35	0.25	0.25	0.25	51	1.00	0.75	0.50	0.35	0.30	0.25	63.5	1.50	1.00	0.75	0.50	0.35	0.35	76	2.00	1.50	0.75	0.50	0.40	0.35
tg δ \ U _R (V) \ D(mm)	10	16	25	35 ~ 63	80	100																																			
35	0.75	0.50	0.35	0.25	0.25	0.25																																			
51	1.00	0.75	0.50	0.35	0.30	0.25																																			
63.5	1.50	1.00	0.75	0.50	0.35	0.35																																			
76	2.00	1.50	0.75	0.50	0.40	0.35																																			
Load life	After applying rated voltage with specified ripple current for 2000 hours at +85°C and then resumed 16 hours: Capacitance change : \pm 15% Initial measured value Leakage current : \leq Initial specified value Dissipation factor : \leq 2 times Initial specified value																																								
Shelf life	After storage for 1000 hours at +85°C and then resumed 16 hours Capacitance change : \pm 15% Initial measured value Leakage current : \leq 2 Initial specified value Dissipation factor : \leq 2 times Initial specified value																																								

Case size table



D \pm 1.5	35	51	63.5	76	89
L $\begin{smallmatrix} +3.0 \\ 0 \end{smallmatrix}$	50,60,80,100,120	80,100,120	100,120,140	100,120,140	140
F \pm 1.0	12	22	28	32	32

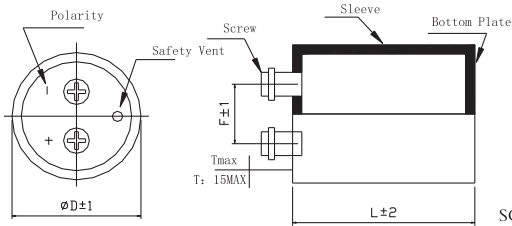
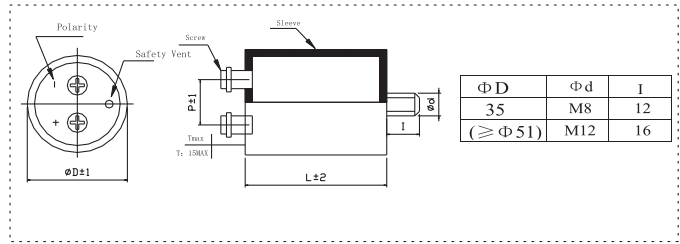
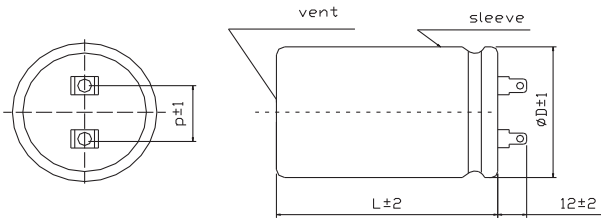
■ Dimensions

U_R		6.3V		10V		16V		25V		35V		50V	
		0J		1A									
		$C_R(\mu F)$	Code	DxL	(A)	DxL	(A)	DxL	(A)	DxL	(A)	DxL	(A)
2200	222												
3300	332												
4700	472												
6800	682											35x50	3.6
10000	103									35x50	4.3	35x60	4.7
15000	153							35x50	4.4	35x80	6.2	35x80	6.2
22000	223					35x50	4.5	35x80	6.3	35x100	8.0	51x80	7.3
33000	333			35x50	4.2	35x80	6.4	35x100	8.3	51x80	9.0	51x80	9.0
47000	473			35x80	6.2	35x100	8.2	51x80	8.9	51x100	11.5	51x100	11.5
68000	683			35x100	8.0	35x120	10.5	51x80	10.8	51x120	14.6	63.5x100	12.7
100000	104			35x120	10.4	51x80	10.7	51x120	14.8	63.5x100	15.4	76x100	16.6
150000	154			51x80	11.3	51x120	14.8	63.5x120	16.2	76x120	21.4		
220000	224			51x120	15.5	63.5x120	17.0	76x120	21.2				
330000	334			63.5x120	17.0	76x120	14.8						
470000	474			76x120	21.9								
1000000	105	63.5x140	40	63.5x140	35	76x140	30	89x140	28				

U_R		63V		80V		100V	
		1J		1K		2A	
		$C_R(\mu F)$	Code	DxL	(A)	DxL	(A)
2200	222					35x50	2.1
3300	332					35x80	3.0
4700	472	35x50	3.0	35x80	3.4	35x100	3.9
6800	682	35x60	3.9	35x80	4.3	35x120	4.9
10000	103	35x80	5.1	35x100	4.2	51x80	6.0
				51x80	6.0		
15000	153	51x80	6.7	51x100	7.0	51x120	8.3
22000	223	51x80	7.4	63.5x100	7.8	63.5x120	9.1
33000	333	51x100	9.7	76x100	10.5	76x120	12.0
47000	473	63.5x100	10.5	76x120	13.5		
1000000	105	63.5x120	13.4				

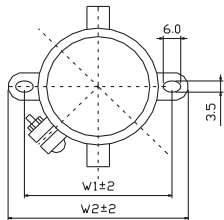
Maximum Allowable Ripple Current (A rms) at 85°C 120Hz

ALUMINUM ELECTROLYTIC CAPACITORS

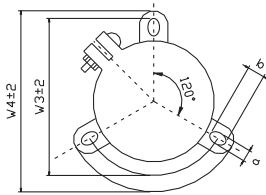


LUG

ΦD	P	ΦD	P
36	14	51	20
40	14	64	25

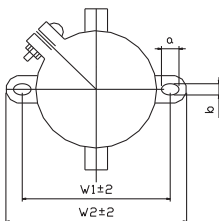


1Type
($\Phi D=36$)



Y Type
($\Phi D=51-101$)

ΦD	a	b
51-89	7	4.5
101	8	4.5



1Type
($\Phi D=51-89$)

ΦD	a	b
51-76	6	4.5
101	7	5

SCREW

Case code	ΦD	L	P	I type bracket		Y type bracket	
				W1	W2	W3	W4
A5	35	50	12.7	48.0	58.0		
A6	35	65	12.7	48.0	58.0		
A8	35	80	12.7	48.0	58.0		
A10	35	100	12.7	48.0	58.0		
A12	35	120	12.7	48.0	58.0		
C8	51	80	22.0	(68.0)	(80.0)	63.5	73.0
C10	51	100	22.0	(68.0)	(80.0)	63.5	73.0
C11	51	110	22.0	(68.0)	(80.0)	63.5	73.0
C12	51	120	22.0	(68.0)	(80.0)	63.5	73.0
D10	63.5	100	28.6	(81.0)	(93.0)	76.2	85.1
D11	63.5	105	28.6	(81.0)	(93.0)	76.2	85.1
D12	63.5	120	28.6	(81.0)	(93.0)	76.2	85.1
D15	63.5	145	28.6	(81.0)	(93.0)	76.2	85.1
E10	76	100	32.0	(93.5)	(106.0)	88.9	98.4
E12	76	120	32.0	(93.5)	(106.0)	88.9	98.4
E15	76	145	32.0	(93.5)	(106.0)	88.9	98.4
E16	76	160	32.0	(93.5)	(106.0)	88.9	98.4
F15	89	145	32.0	(108.0)	(120.5)	101.6	111.1
F16	89	160	32.0	(108.0)	(120.5)	101.6	111.1
C7R	51	65	22.0	(68.0)	(80.0)	63.5	73.0
C8R	51	75	22.0	(68.0)	(80.0)	63.5	73.0
C10R	51	95	22.0	(68.0)	(80.0)	63.5	73.0
C12R	51	115	22.0	(68.0)	(80.0)	63.5	73.0
C13R	51	130	22.0	(68.0)	(80.0)	63.5	73.0
D10R	63.5	95	22.0	(81.0)	(93.0)	76.2	85.1
D12R	63.5	115	28.6	(81.0)	(93.0)	76.2	85.1
D13R	63.5	130	28.6	(81.0)	(93.0)	76.2	85.1
D16R	63.5	155	28.6	(81.0)	(93.0)	76.2	85.1
D20R	63.5	195	28.6	(81.0)	(93.0)	76.2	85.1
E10R	76	95	28.6	(93.5)	(106.0)	88.9	98.4
E12R	76	115	32.0	(93.5)	(106.0)	88.9	98.4
E13R	76	130	32.0	(93.5)	(106.0)	88.9	98.4
E16R	76	155	32.0	(93.5)	(106.0)	88.9	98.4
E17R	76	170	32.0	(93.5)	(106.0)	88.9	98.4
E20R	76	195	32.0	(93.5)	(106.0)	88.9	98.4
F13R	89	130	32.0	(108.0)	(120.5)	101.6	111.1
F16R	89	155	32.0	(108.0)	(120.5)	101.6	111.1
F17R	89	170	32.0	(108.0)	(120.5)	101.6	111.1
F20R	89	195	32.0	(108.0)	(120.5)	101.6	111.1
F24R	89	235	32.0	(108.0)	(120.5)	101.6	111.1
G18R	101	175	41.5	(32)		115	127
G20R	101	195	41.5	(32)		115	127
G24R	101	235	41.5	(32)		115	127

Hexagon-head bolt
 Case code (A to F): M5 x 10
 Case code (G): M6 x 12 (P=32.0)
 Case code (G): M8 x 16 (P=41.5)