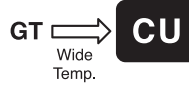


# LARGE ALUMINUM ELECTROLYTIC CAPACITORS

## CU Screw Terminal Type, Wide Temperature Range Series

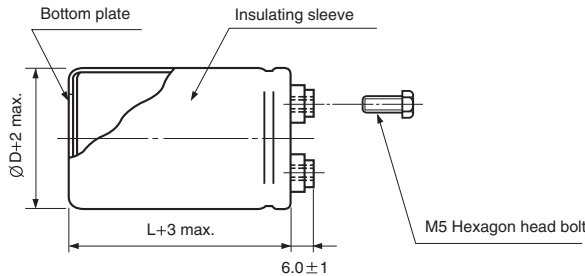
- Screw terminal series for high temperature up to 105°C
- High ripple current capability
- Ideally suited for use as input and output filter capacitors in power supplies
- Complied to the RoHS directive



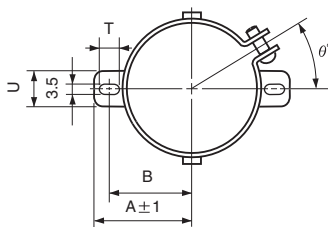
Item	Characteristics																																																																		
Operating temperature range	WV < 350 : -40 ~ +105°C, WV ≥ 350 : -25 ~ +105°C																																																																		
Capacitance tolerance	±20% at 120Hz, 20°C																																																																		
Leakage current max.	$I = 3 \sqrt{CV}$ (µA) (after 5 minutes)																																																																		
Dissipation factor max. (at 120Hz, 20°C)	<table border="1"> <thead> <tr> <th>∅D \ WV</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>80</th> <th>100</th> <th>160</th> <th>200, 250</th> <th>350~500</th> </tr> </thead> <tbody> <tr> <td>35</td> <td>0.50</td> <td>0.45</td> <td>0.40</td> <td>0.30</td> <td>0.25</td> <td>0.25</td> <td>0.20</td> <td>0.15</td> <td>0.15</td> <td>0.25</td> </tr> <tr> <td>51</td> <td>0.70</td> <td>0.60</td> <td>0.45</td> <td>0.45</td> <td>0.35</td> <td>0.30</td> <td>0.20</td> <td>0.15</td> <td>0.15</td> <td>0.25</td> </tr> <tr> <td>63.5</td> <td>1.00</td> <td>0.80</td> <td>0.60</td> <td>0.50</td> <td>0.40</td> <td>0.35</td> <td>0.25</td> <td>0.20</td> <td>0.20</td> <td>0.25</td> </tr> <tr> <td>76.2</td> <td>1.60</td> <td>1.20</td> <td>0.80</td> <td>0.65</td> <td>0.60</td> <td>0.45</td> <td>0.35</td> <td>0.30</td> <td>0.20</td> <td>0.25</td> </tr> <tr> <td>89</td> <td>2.50</td> <td>1.50</td> <td>1.00</td> <td>0.80</td> <td>0.70</td> <td>0.50</td> <td>0.40</td> <td>0.35</td> <td>0.25</td> <td>0.25</td> </tr> </tbody> </table>	∅D \ WV	16	25	35	50	63	80	100	160	200, 250	350~500	35	0.50	0.45	0.40	0.30	0.25	0.25	0.20	0.15	0.15	0.25	51	0.70	0.60	0.45	0.45	0.35	0.30	0.20	0.15	0.15	0.25	63.5	1.00	0.80	0.60	0.50	0.40	0.35	0.25	0.20	0.20	0.25	76.2	1.60	1.20	0.80	0.65	0.60	0.45	0.35	0.30	0.20	0.25	89	2.50	1.50	1.00	0.80	0.70	0.50	0.40	0.35	0.25	0.25
	∅D \ WV	16	25	35	50	63	80	100	160	200, 250	350~500																																																								
	35	0.50	0.45	0.40	0.30	0.25	0.25	0.20	0.15	0.15	0.25																																																								
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89	2.50	1.50	1.00	0.80	0.70	0.50	0.40	0.35	0.25	0.25																																																									
Load life (after application of the rated voltage for 2000 hours at 105°C)	Leakage current	Less than specified value																																																																	
	Capacitance change	Within ±20% of initial value																																																																	
	tanδ	Less than 300% of specified value																																																																	
Shelf life (at 105°C)	After 1000 hours no load test, leakage current, capacitance and tanδ are same as load life value. The measurement shall be performed at 20°C by the KS C IEC 60384 - 4																																																																		

### ● DRAWING

Unit : mm

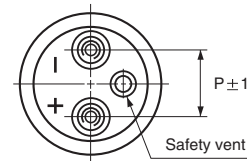


### ● TWO LEGS ANGLE

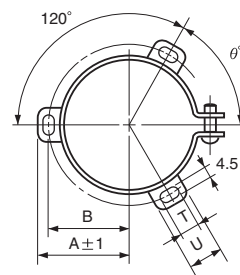


### ● TWO LEGS ANGLE SIZE TABLE

∅D	B	A	T	U	θ°	P
35	24	29	7	10	30	12.7
51	33.6	39.9	6	14	30	22
63.5	40.8	46.8	6	14	30	28.6



### ● THREE LEGS ANGLE



### ● THREE LEGS ANGLE SIZE TABLE

∅D	B	A	T	U	θ°	P
51	32.9	38.9	7	12	60	22
63.5	38.4	45.3	7	14	60	28.6
76.2	44.5	51.5	8	16	60	31.8
89	50.8	61	8	16	60	31.8

## CU series

### ● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

$\mu\text{F}$ \diagdown WV	16		25		35		50	
6800							35×50	3.1
10000					35×60	3.5	35×60	4.0
15000			35×50	3.8	35×80	4.8	35×80	5.5
22000	35×60	4.9	35×68	5.1	35×100	6.4	35×120	8.0
33000	35×80	6.7	35×100	7.4	35×120	8.5	51×100	8.3
47000	35×100	8.8	35×120	9.5	51×100	9.9	51×120	10.7
68000	51×80	9.5	51×100	10.3	51×120	12.8	63.5×100	12.6
100000	51×100	12.5	51×120	13.5	63.5×120	16.4	76.2×120	13.7
150000	51×140	17.6	63.5×120	16.9	76.2×120	17.4	76.2×140	17.9
220000	63.5×120	18.4	76.2×120	18.0	76.2×160	22.8		
330000	76.2×120	19.1	76.2×160	24.6				
470000	76.2×160	25.5						

$\mu\text{F}$ \diagdown WV	63		80		100		160	
1000							35×60	1.7
1500					35×60	1.9	35×68	2.1
2200					35×80	2.6	35×100	3.0
3300					35×100	3.5	35×120	4.0
4700			35×60	3.0	51×80	4.3	51×100	5.0
6800	35×60	3.7	35×80	4.1	51×100	5.7	51×140	7.0
10000	35×80	5.0	35×100	5.4	51×140	7.9	63.5×120	7.3
15000	35×120	7.2	51×80	6.3	63.5×140	9.2	76.2×120	7.0
22000	51×80	7.0	51×100	8.3	76.2×140	11.0	76.2×160	9.4
33000	51×120	10.1	51×140	11.7				
47000	63.5×100	11.7	63.5×140	14.3				
68000	63.5×140	16.0	76.2×140	15.8				
100000	76.2×140	18.2						

↑ ↑  
 Ripple current (A rms) at 105°C, 120Hz  
 Case size ØD×L (mm)

# LARGE ALUMINUM ELECTROLYTIC CAPACITORS

**CU** series

## ● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

$\mu\text{F}$ \diagdown WV	200		250		350		400	
1000	35×60	1.8	35×80	2.1	35×100	3.4	51×70	3.2
1500	35×80	2.3	35×100	2.6	51×80	4.4	51×80	4.8
2200	35×120	3.3	51×80	3.4	51×100	5.7	51×120	6.4
3300	51×100	4.2	51×120	4.8	51×130	8.0	51×140	10.5
					63.5×100	7.8	63.5×120	10.5
4700	51×140	5.8	63.5×100	5.2	63.5×120	9.0	63.5×140	12.8
					76.2×100	8.8	76.2×120	12.5
6800	63.5×120	6.2	63.5×120	5.5	63.5×140	12.6	76.2×140	15.1
					76.2×120	12.4	89×120	15.4
10000	76.2×120	6.7	76.2×140	7.5	76.2×160	15.0	76.2×190	19.8
					89×140	15.3	89×160	20.1
12000	76.2×140	7.8	76.2×160	8.0	89×140	17.1	89×190	23.0
15000	76.2×160	9.2	89×140	9.4	89×190	21.5		

$\mu\text{F}$ \diagdown WV	450		500	
2200	63.5×100	6.7	63.5×130	7.0
2700	63.5×120	7.9	63.5×150	8.6
3300	63.5×140	9.4	76.2×130	9.7
	76.2×100	8.7		
3900	63.5×150	10.8	76.2×150	10.7
	76.2×120	10.5		
4700	76.2×130	11.9	76.2×160	12.0
	89×120	11.9		
5600	76.2×140	13.3	89×140	13.8
	89×130	13.5		
6800	76.2×160	14.9	89×160	15.5
	89×140	14.9		
8200	76.2×190	17.7	89×190	18.0
	89×160	17.6		
10000	89×190	21.0		
12000	89×190	23.1		

Ripple current (A rms) at 105°C, 120Hz  
Case size  $\varnothing D \times L$  (mm)

## ● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

WV \ Frequency	50Hz	120Hz	300Hz	1kHz	10kHz $\leq$
~ 100	0.8	1.0	1.1	1.15	1.2
160 ~ 250	0.8	1.0	1.1	1.15	1.3
350 ~	0.8	1.0	1.2	1.35	1.4