

LARGE ALUMINUM ELECTROLYTIC CAPACITORS



Upgrade

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

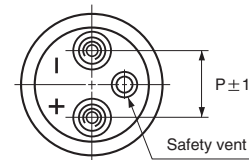
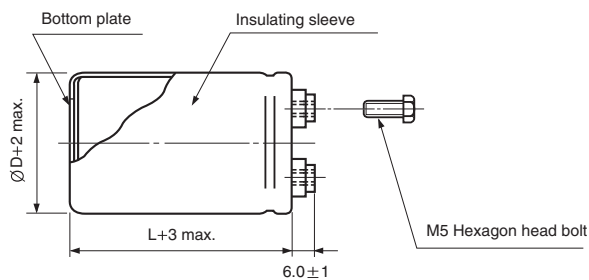
GT → **CU**
Wide Temp.



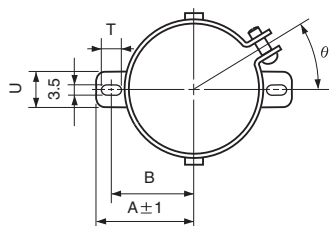
Item	Characteristics																																																							
Operating temperature range	WV < 350 : -40 ~ +105°C, WV ≥ 350 : -25 ~ +105°C																																																							
Capacitance tolerance	±20% at 120Hz, 20°C																																																							
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>0.75</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	0.75	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																																													
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76.2	1.60	1.20	0.80	0.75	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

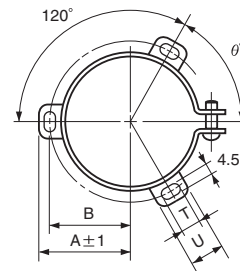
Unit : mm



● TWO LEGS ANGLE



● THREE 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 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

LARGE TYPES

LARGE ALUMINUM ELECTROLYTIC CAPACITORS

CU series

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

μF \ WV	16		25		35		50	
	6800							35×50
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	16.8	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						

μF \ WV	63		80		100		160	
	1000							35×60
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	9.1	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	14.2				
100000	76.2×140	14.6						

μF \ WV	200		250		350		400	
	1000	35×68	1.8	35×80	2.1	35×100	3.4	51×70
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	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	76.2×120	12.5
6800	63.5×120	6.2	63.5×120	5.5	76.2×120	12.4	76.2×140	15.1
10000	76.2×120	6.7	76.2×140	7.5				
15000	76.2×160	9.2						

μF \ WV	450		500	
	2200	63.5×100	6.7	63.5×130
2700	63.5×120	7.9	63.5×150	8.6
3300	63.5×140	9.4	76.2×130	9.7
3900	76.2×120	10.5	76.2×150	10.7
4700	76.2×130	11.9	89×150	12.0
5600	76.2×140	13.3		
6800	89×140	14.9		

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

● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

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