

●高リップル・長寿命品(105°C)

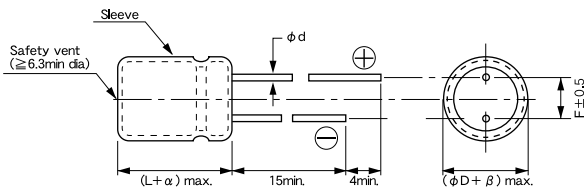
UCWYZシリーズ

JIS C5101
CE-04

■特徴

- ・低ESRで、スイッチング電源に最適
- ・105°C 4,000~10,000時間を保証
- ・高リップル小形化品

■寸法図/DIAGRAM OF DIMENSIONS



●High Ripple Current & Long Life type(105°C)

TYPE UCWYZ

JIS C5101
CE-04

■FEATURES

- ・ Low ESR, For Switchng Power Supply.
- ・ This product is the guaranteed service life of 4,000~10,000 hours at 105°C.
- ・ Smaller size with large permissible ripple current.

φ D	5	6.3	8	10	12.5	16	18
φ d	0.5		0.6			0.8	
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
α	1.0			L < 20 : 1.5		L ≥ 20 : 2	
β	0.5						

■性能/PERFORMANCE SPECIFICATIONS

カテゴリ温度範囲	CATEGORY TEMPERATURE RANGE	-55°C ~ +105°C																
標準静電容量許容差	STANDARD CAPACITANCE TOLERANCE	-20% ~ +20% (20°C, 120Hz)																
漏れ電流 (最大値)	LEAKAGE CURRENT (MAX. VALUE)	I=0.01CV OR 3μA WHICHEVER IS THE GREATER (after 2 minutes) C=RATED CAPACITANCE (μF) V=WORKING VOLTAGE (V)																
損失角の正接 (最大値) (tan δ)	DISSIPATION FACTOR (MAX. VALUE) (tan δ)	When the capacitance exceed 1,000μF, the value of tan δ is increased by 0.02 for each increment of 1,000μF or its fraction. <table border="1"> <tr> <td>W. V</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> </tr> <tr> <td>tan δ</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.09</td> </tr> </table>	W. V	6.3	10	16	25	35	50	63	tan δ	0.22	0.19	0.16	0.14	0.12	0.10	0.09
W. V	6.3	10	16	25	35	50	63											
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耐久性	ENDURANCE	<table border="1"> <tr> <td>6.3~10V</td> <td>φ D=5~6.3mm: 4,000 hrs φ D=8~10mm: 6,000 hrs φ D≥12.5mm: 8,000 hrs</td> </tr> <tr> <td>16~63V</td> <td>φ D=5~6.3mm: 5,000 hrs φ D=8~10mm: 7,000 hrs φ D≥12.5mm: 10,000 hrs</td> </tr> </table> <p>After applying rated voltage at 105°C The capacitors shall meet the following requirements.</p> <table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±25% of the initial value</td> </tr> <tr> <td>Dissipation Facto</td> <td>Less than 200% of the initial specified value</td> </tr> <tr> <td>Leakage Cureent</td> <td>Less than the initial specified value</td> </tr> </table>	6.3~10V	φ D=5~6.3mm: 4,000 hrs φ D=8~10mm: 6,000 hrs φ D≥12.5mm: 8,000 hrs	16~63V	φ D=5~6.3mm: 5,000 hrs φ D=8~10mm: 7,000 hrs φ D≥12.5mm: 10,000 hrs	Capacitance Change	Within ±25% of the initial value	Dissipation Facto	Less than 200% of the initial specified value	Leakage Cureent	Less than the initial specified value						
6.3~10V	φ D=5~6.3mm: 4,000 hrs φ D=8~10mm: 6,000 hrs φ D≥12.5mm: 8,000 hrs																	
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Capacitance Change	Within ±25% of the initial value																	
Dissipation Facto	Less than 200% of the initial specified value																	
Leakage Cureent	Less than the initial specified value																	
低温特性 (+20°Cにおける120Hzのインピーダンスに対する比) (最大値)	LOW TEMPERATURE STABILITY (RATIO OF IMPEDANCE AT COLD TO THAT AT 20°C, 120Hz. MAX. VALUE.)	インピーダンス比 / Impedance ratio (at 120Hz) <table border="1"> <tr> <td>W.V.</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> </tr> <tr> <td>Z (-55°C) / Z (+20°C)</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table>	W.V.	6.3	10	16	25	35	50	63	Z (-55°C) / Z (+20°C)	4	4	3	3	3	3	3
W.V.	6.3	10	16	25	35	50	63											
Z (-55°C) / Z (+20°C)	4	4	3	3	3	3	3											
その他の特性はJIS C5101-4に準ずる	THE OTHER CHARACTERISTICS	The other characteristics are based on JIS C 5101-4.																

■定格リップル電流補正係数

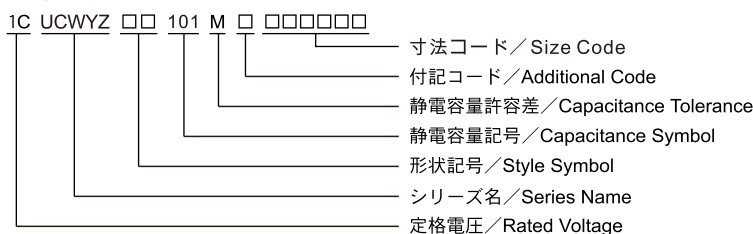
リップル周波数が標準品一覧表の規定値と異なる場合には、下表の係数を乗じた値以下でご使用下さい。

When the ripple frequency differs from the spification shown in the list of standard products,multiply the value with the coefficient shown below,and use the products under the obtained value.

周波数補正係数 / FREQUENCY CORRECTION FACTOR

Cap (μF)	Frequency(Hz)			
	120	1k	10k	100k up
~ 33	0.42	0.70	0.90	1.0
39 ~ 270	0.50	0.73	0.92	1.0
330 ~ 680	0.55	0.77	0.94	1.0
820 ~ 1800	0.60	0.80	0.96	1.0
2200 ~ 18000	0.70	0.85	0.98	1.0

■品番ご指定法 / HOW TO SPECIFY ITEM NUMBER



■寸法表/CASE SIZE TABLE
**■Impedance[Max.Value Ω] at 20°C 100kHz
 ■Ripple Curent [Max.Value mA] at 105°C 100kHz**

W.V (vdc)	Cap (μF)	ΦD×L (mm)	Impedance	Ripple
6.3	150	5×11	0.754	210
	330	6.3×11	0.286	340
	680	8×11.5	0.169	640
	820	10×12.5	0.104	865
	1000	8×15	0.113	840
	1200	8×20	0.090	1050
	1200	10×16	0.078	1210
	1500	10×20	0.060	1400
	2200	10×25	0.055	1650
	2700	10×30	0.040	1910
	3300	12.5×20	0.046	1900
	3900	12.5×25	0.035	2230
	4700	12.5×30	0.031	2650
	5600	12.5×35	0.026	2880
	5600	16×20	0.035	2530
	6800	16×25	0.027	2930
	8200	16×31.5	0.022	3450
	10000	16×35.5	0.020	3610
	10000	18×25	0.025	3410
	12000	18×31.5	0.020	4170
15000	18×35.5	0.018	4220	
18000	18×40	0.016	4280	
10	100	5×11	0.754	210
	220	6.3×11	0.286	340
	470	8×11.5	0.169	640
	680	8×15	0.113	840
	680	10×12.5	0.104	865
	1000	8×20	0.090	1050
	1000	10×16	0.078	1210
	1200	10×20	0.060	1400
	1500	10×25	0.055	1650
	2200	10×30	0.040	1910
	2200	12.5×20	0.046	1900
	3300	12.5×25	0.035	2230
	3900	12.5×30	0.031	2650
	3900	16×20	0.035	2530
	4700	12.5×35	0.026	2880
	5600	16×25	0.027	2930
	6800	16×31.5	0.022	3450
	6800	18×25	0.025	3140
	8200	16×35.5	0.020	3610
	8200	18×31.5	0.020	4170
10000	18×35.5	0.018	4220	
12000	18×40	0.016	4280	
16	56	5×11	0.754	210
	120	6.3×11	0.286	340
	330	8×11.5	0.169	640
	470	8×15	0.113	840
	470	10×12.5	0.104	865
	680	8×20	0.090	1050
	680	10×16	0.078	1210
	1000	10×20	0.060	1400
	1200	10×25	0.055	1650
	1500	10×30	0.040	1910
	1500	12.5×20	0.046	1900
	2200	12.5×25	0.035	2230
	2700	12.5×30	0.031	2650
	2700	16×20	0.035	2530
	3300	12.5×35	0.026	2880
	3900	16×25	0.027	2930
	4700	16×31.5	0.022	3450
	4700	18×25	0.025	3140
	5600	16×35.5	0.020	3610
	5600	18×31.5	0.020	4170
8200	18×35.5	0.018	4220	
10000	18×40	0.016	4280	
25	47	5×11	0.754	210
	100	6.3×11	0.286	340
	220	8×11.5	0.169	640
	330	8×15	0.113	840
	330	10×12.5	0.104	865
	470	8×20	0.090	1050
	470	10×16	0.078	1210
	680	10×20	0.060	1400
	820	10×25	0.055	1650
	1000	10×30	0.040	1910
	1000	12.5×20	0.046	1900
	1500	12.5×25	0.035	2230
	1800	12.5×30	0.031	2650
	1800	16×20	0.035	2530
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W.V (vdc)	Cap (μF)	ΦD×L (mm)	Impedance	Ripple	
25	2700	16×25	0.027	2930	
	3300	16×31.5	0.022	3450	
	3300	18×25	0.025	3140	
	3900	16×35.5	0.020	3610	
	3900	18×31.5	0.020	4170	
	4700	18×35.5	0.018	4220	
	5600	18×40	0.016	4280	
	35	33	5×11	0.754	210
		56	6.3×11	0.286	340
		150	8×11.5	0.169	640
220		8×15	0.113	840	
220		10×12.5	0.104	865	
270		8×20	0.090	1050	
330		10×16	0.078	1210	
470		10×20	0.060	1400	
560		10×25	0.055	1650	
680		10×30	0.040	1910	
680		12.5×20	0.046	1900	
1000		12.5×25	0.035	2230	
1200		12.5×30	0.031	2650	
1200		16×20	0.035	2530	
1500		12.5×35	0.026	2880	
1800		16×25	0.027	2930	
2200		16×31.5	0.022	3450	
2200		18×25	0.025	3140	
2700		16×35.5	0.020	3610	
2700		18×31.5	0.020	4170	
3300	18×35.5	0.018	4220		
3900	18×40	0.016	4280		
50	2.2	5×11	3.250	43	
	3.3	5×11	2.860	53	
	4.7	5×11	2.470	88	
	10	5×11	1.950	100	
	22	5×11	0.910	180	
	56	6.3×11	0.390	295	
	100	8×11.5	0.221	555	
	120	8×15	0.156	730	
	150	10×12.5	0.156	760	
	180	8×20	0.118	910	
	220	10×16	0.109	1050	
	270	10×20	0.078	1220	
	330	10×25	0.072	1440	
	470	10×30	0.056	1690	
	470	12.5×20	0.059	1660	
	560	12.5×25	0.044	1950	
	680	12.5×30	0.039	2310	
	820	12.5×35	0.033	2510	
	820	16×20	0.044	2210	
	1000	16×25	0.033	2555	
1200	16×31.5	0.029	3010		
1200	18×25	0.034	2740		
1500	16×35.5	0.025	3150		
1800	18×31.5	0.027	3635		
2200	18×35.5	0.022	3680		
2700	18×40	0.018	3800		
63	15	5×11	1.144	165	
	33	6.3×11	0.455	265	
	56	8×11.5	0.286	500	
	82	8×15	0.208	665	
	82	10×12.5	0.143	690	
	120	8×20	0.156	820	
	120	10×16	0.099	950	
	180	10×20	0.073	1150	
	220	10×25	0.060	1350	
	270	12.5×20	0.053	1500	
	390	12.5×25	0.040	1900	
	470	12.5×30	0.036	2300	
	470	16×20	0.042	2000	
	560	12.5×35	0.031	2500	
	680	16×25	0.033	2600	
	820	16×31.5	0.027	2850	
	820	18×25	0.031	2800	
	1000	16×35.5	0.025	2900	
	1200	18×31.5	0.026	3300	
	1500	18×35.5	0.023	3400	
1800	18×40	0.022	3500		

・この寸法表にないカスタム品も製造いたしますので、ご相談下さい。
 Produce custom product too, which are not found in these tables.