

●低インピーダンス品
UCF シリーズ

JIS C 5101
CE-04

●LOW-IMPEDANCE TYPE
TYPE **UCF**

JIS C 5101
CE-04

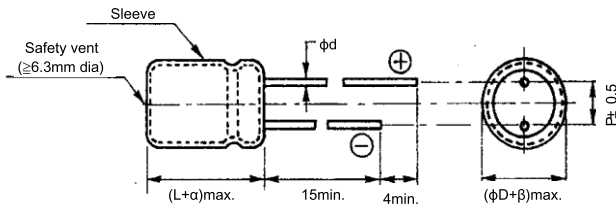
■特徴

- ・高周波超低インピーダンスを実現。
- ・105°C 6,000~10,000時間を保証。
- ・基板洗浄タイプではありません。

■FEATURES

- ・This product is Ultra-low-impedance for high-frequency.
- ・This product is the guaranteed service life of 6,000~10,000 hours at 105°C.
- ・Not washable product.

■寸法図/DIAGRAM OF DIMENSIONS



ΦD	5	6.3	8	10	12.5		16	18
					L<35	L≥35		
F	2	2.5	3.5	5.0	5.0	5.0	7.5	7.5
φd	0.5	0.5	0.6	0.6	0.6	0.8	0.8	0.8
α	1.5	1.5	1.5	1.5	≤35L:1.5, ≥40L:2.0		1.5	1.5
β	0.5							

■性能/PERFORMANCE SPECIFICATIONS

カテゴリ温度範囲	CATEGORY TEMPERATURE RANGE	-40 ~ +105°C														
標準静電容量許容差	STANDARD CAPACITANCE TOLERANCE	-20 ~ +20%														
漏れ電流 (最大値)	LEAKAGE CURRENT(MAX.VALUE)	I=0.01CV OR 3 μA WHICHEVER C=RATED CAPACITANCE(μ F) IS THE GREATER (after 2 minutes) V=WORKING VOLTAGE(V)														
損失角の正接 (最大値) (tan δ)	DISSIPATION FACTOR(MAX.VALUE) (tan δ)	<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> </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> </tr> </table> <p>When the capacitance exceed 1,000 μ F,the value of tan δ is increased by 0.02 for each increment of 1,000 μ F or its fraction.</p>	W.V	6.3	10	16	25	35	50	tan δ	0.22	0.19	0.16	0.14	0.12	0.10
W.V	6.3	10	16	25	35	50										
tan δ	0.22	0.19	0.16	0.14	0.12	0.10										
耐久性 105°C 10,000時間 定格使用電圧印加 (φD≤6.3: 6000時間, φ8: 8000時間)	ENDURANCE APPLICATION OF RATED OPERATING VOLTAGE,AT 105°C FOR 10,000HOURS. (φD≤6.3: 6000Hr, φ8: 8000Hr)	<table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±25% of the initial value</td> </tr> <tr> <td>Dissipation Factor</td> <td>Less than 200% of the initial specification value</td> </tr> <tr> <td>Leakage Current</td> <td>Less than the initial specification value</td> </tr> </table>	Capacitance Change	Within ±25% of the initial value	Dissipation Factor	Less than 200% of the initial specification value	Leakage Current	Less than the initial specification value								
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Leakage Current	Less than the initial specification value															
高温無負荷特性 電圧を印加しないで 105°C 1,000時間放置	ENDURANCE APPLICATION OF WITHOUT VOLTAGE FOR 1,000HOURS.	<table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±25% of the initial value</td> </tr> <tr> <td>Dissipation Factor</td> <td>Less than 200% of the initial specification value</td> </tr> <tr> <td>Leakage Current</td> <td>Less than 200% of the initial specification value</td> </tr> </table>	Capacitance Change	Within ±25% of the initial value	Dissipation Factor	Less than 200% of the initial specification value	Leakage Current	Less than 200% of the initial specification value								
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Leakage Current	Less than 200% of the initial specification value															
その他の特性はJIS C 5101-4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

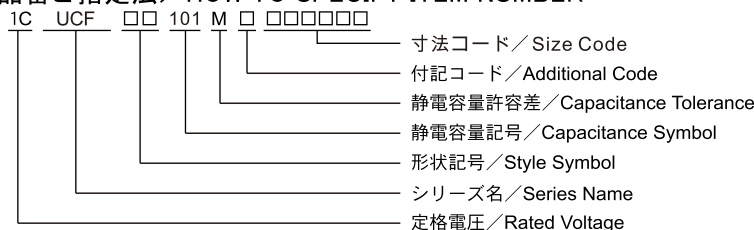
リップル周波数が標準品一覧表の規定値と異なる場合には、下表の係数を乗じた値以下でご使用下さい。

When the ripple frequency differs from the specification 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.(μ F)	Frequency (Hz)			
	120	1K	10K	100K
27~180	0.40	0.75	0.90	1.00
220~560	0.50	0.85	0.94	1.00
680~1800	0.60	0.87	0.95	1.00
2200~3900	0.75	0.90	0.95	1.00
4700~10000	0.85	0.95	0.98	1.00

■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 Current [Max. value mA] at 105°C 100kHz

W.V (Vdc)	Cap. (μF)	φD×L (mm)	Impedance	Ripple Current
6.3	220	5×11	0.220	345
	330	6.3×11	0.100	450
	470	8×11.5	0.094	540
	680	8×11.5	0.062	820
	820	8×11.5	0.056	945
	1000	8×15	0.050	1140
	1200	8×15	0.045	1250
	1500	8×20	0.029	1500
	1800	10×16	0.028	1760
	2200	10×20	0.020	1960
	2700	10×25	0.018	2250
	3300	10×25	0.018	2360
	3900	12.5×20	0.017	2480
	4700	12.5×25	0.015	2900
	5600	12.5×30	0.013	3450
	6800	12.5×35	0.012	3570
	6800	16×20	0.015	3250
	8200	16×25	0.013	3630
10000	18×25	0.012	3650	
10	150	5×11	0.200	345
	220	6.3×11	0.100	450
	330	6.3×11	0.094	540
	470	8×11.5	0.062	820
	680	8×11.5	0.056	945
	820	8×15	0.056	1080
	1000	8×15	0.045	1250
	1000	10×12.5	0.039	1330
	1200	10×16	0.039	1450
	1500	10×16	0.028	1760
	1800	10×20	0.020	1960
	2200	10×25	0.018	2250
	2700	12.5×20	0.018	2360
	3300	12.5×20	0.017	2480
	3900	12.5×25	0.015	2900
	4700	12.5×30	0.013	3450
	4700	16×20	0.015	3250
	5600	12.5×35	0.012	3570
6800	16×25	0.013	3630	
8200	18×25	0.012	3650	
16	100	5×11	0.220	345
	120	6.3×11	0.170	390
	150	6.3×11	0.100	450
	220	6.3×11	0.094	540
	330	8×11.5	0.087	820
	470	8×11.5	0.056	945
	560	8×15	0.056	1080
	680	8×15	0.045	1250
	680	10×12.5	0.039	1330
	820	10×16	0.037	1400
	1000	8×20	0.029	1500
	1000	10×16	0.028	1760
	1200	10×20	0.027	1820
	1500	10×20	0.020	1960
	1800	10×25	0.018	2250
	2200	12.5×20	0.017	2480
	2700	12.5×25	0.015	2900
	3300	12.5×30	0.013	3450
3300	16×20	0.015	3250	
3900	12.5×35	0.012	3570	
4700	16×25	0.013	3630	
5600	18×25	0.012	3650	

W.V (Vdc)	Cap. (μF)	φD×L (mm)	Impedance	Ripple Current
25	68	5×11	0.220	345
	100	6.3×11	0.170	390
	120	6.3×11	0.100	450
	150	6.3×11	0.094	540
	220	8×11.5	0.087	820
	330	8×11.5	0.056	945
	470	10×12.5	0.039	1330
	560	8×20	0.029	1500
	680	10×16	0.028	1730
	820	10×20	0.020	1960
	1000	10×25	0.018	2250
	1200	10×25	0.018	2300
	1500	12.5×20	0.017	2480
	1800	12.5×25	0.015	2900
	2200	12.5×30	0.015	3450
	2200	16×20	0.015	3250
	2700	12.5×35	0.012	3570
	3300	16×25	0.013	3630
	3900	18×25	0.012	3650
	35	47	5×11	0.220
56		5×11	0.170	390
68		6.3×11	0.100	450
100		6.3×11	0.094	540
120		6.3×11	0.087	660
150		8×11.5	0.062	750
180		8×11.5	0.056	820
220		8×11.5	0.056	945
270		8×15	0.045	1250
330		10×12.5	0.039	1330
390		8×20	0.029	1500
470		10×16	0.028	1760
560		10×20	0.026	1960
680		10×25	0.024	2250
820		10×25	0.018	2300
1000		12.5×20	0.017	2480
1200		12.5×25	0.015	2900
1500		12.5×30	0.015	3450
1500		16×20	0.015	3250
1800		12.5×35	0.014	3570
50	2200	16×25	0.013	3630
	2700	18×25	0.012	3650
	27	6.3×11	0.700	238
	47	6.3×11	0.400	345
	56	8×11.5	0.340	385
	68	8×11.5	0.280	460
	100	8×11.5	0.170	724
	120	8×15	0.150	950
	150	10×12.5	0.120	979
	180	8×20	0.105	1190
50	220	10×16	0.084	1370
	270	10×20	0.070	1580
	330	10×25	0.055	1870
	390	10×25	0.050	1930
	470	12.5×20	0.045	2050
	560	12.5×25	0.034	2410
	680	12.5×30	0.030	2860
	820	12.5×35	0.025	2960
	820	16×20	0.028	2730
	1000	16×25	0.025	3010
	1200	16×30	0.022	3120
	1500	18×25	0.021	3290