

●低インピーダンス品
UCE シリーズ

JIS C 5101
CE-04

●LOW-IMPEDANCE TYPE
TYPE **UCE**

JIS C 5101
CE-04

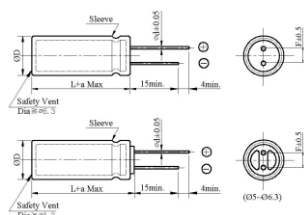
■特 徴

- ・高周波超低インピーダンスを実現。
- ・105°C 2000~3000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 2,000~3,000 hours at 105°C.
- ・Not washable product.

■寸法図/DIAGRAM OF DIMENSIONS



ΦD	5	6.3	8	10	12.5	16	18
ΦD	ΦD + 0.5Max						
Φd	0.5	0.5	0.6	0.6	0.6	0.8	0.8
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
a	L + 1.5Max				$\leq 35L + 1.5Max$ $\geq 40L + 2.0Max$		L + 1.5Max

■性 能/PERFORMANCE SPECIFICATIONS

カテゴリー温度範囲	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 $3\mu A$ WHICHEVER C=RATED CAPACITANCE(μF) IS THE GREATER (after 2 minutes) V=WORKING VOLTAGE(V)														
損失角の正接 (最大値) ($\tan \delta$)	DISSIPATION FACTOR(MAX.VALUE) ($\tan \delta$)	<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>$\tan \delta$</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>The above values should be increased by 0.02 for every additional 1000μF</p>	W.V	6.3	10	16	25	35	50	$\tan \delta$	0.22	0.19	0.16	0.14	0.12	0.10
W.V	6.3	10	16	25	35	50										
$\tan \delta$	0.22	0.19	0.16	0.14	0.12	0.10										
耐 久 性 Φ 5~8 2000Hr Φ 10~以上3000Hr	ENDURANCE APPLICATION OF RATED OPERATING VOLTAGE AT 105°C FOR 3000HOURS. Φ 5~8 : 2000Hr	<p>The following specifications shall be satisfied when the capacitors are restored to 25°C after subjected to DC voltage with the rated ripple current is applied for 3,000 (Φ5-8 : 2000) hours at 105°C</p> <table border="1"> <tr> <td>Capacitance change</td> <td>$\leq \pm 25\%$ of the initial value</td> </tr> <tr> <td>Dissipation factor($\tan \delta$)</td> <td>$\leq 200\%$ of the specified value</td> </tr> <tr> <td>Leakage current</td> <td>\leq specified value</td> </tr> </table>	Capacitance change	$\leq \pm 25\%$ of the initial value	Dissipation factor($\tan \delta$)	$\leq 200\%$ of the specified value	Leakage current	\leq specified value								
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Leakage current	\leq specified 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 $\pm 25\%$ 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 $\pm 25\%$ 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.														

■定格リプル電流補正係数

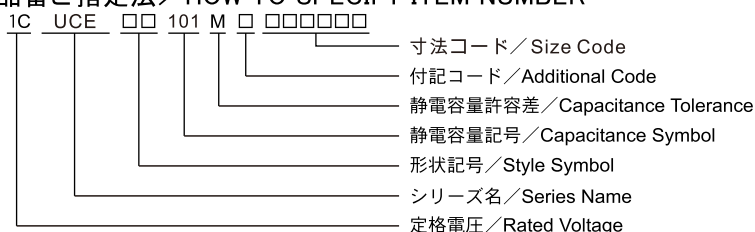
リプル周波数が標準品一覧表の規定値と異なる場合には、下表の係数を乗じた値以下でご使用下さい。

When the ripple frequency differs from the spicification 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

Vdc	Frequency(Hz)				
	50/60	120	1K	10K	100K
6.3~16	0.60	0.75	0.90	0.98	1.00
25~50	0.50	0.62	0.85	0.95	1.00

■品番ご指定法/HOW TO SPECIFY ITEM NUMBER



■寸法表/CASE SIZE TABLE

Nominal Capacitance (uF)	6.3V				10V				16V			
	Case Size ΦD×L (mm)	Impedance (Ωmax/100kHz)		Max. Rated ripple current @105°C100kHz (mA rms)	Case Size ΦD×L (mm)	Impedance (Ωmax/100kHz)		Max. Rated ripple current @105°C100kHz (mA rms)	Case Size ΦD×L (mm)	Impedance (Ωmax/100kHz)		Max. Rated ripple current @105°C100kHz (mA rms)
		20°C	-10°C			20°C	-10°C			20°C	-10°C	
100	5×11	1.780	2.690	175	5×11	1.480	2.480	250	6.3×11	1.280	2.160	290
220	6.3×11	0.880	1.760	280	6.3×11	0.580	1.660	405	8×11.5	0.460	1.560	410
330	6.3×11	0.450	1.320	405	8×11.5	0.380	1.280	500	8×11.5	0.280	1.080	760
470	8×11.5	0.110	0.380	560	8×11.5	0.072	0.220	760	8×15	0.056	0.170	995
560	8×11.5	0.072	0.220	760	8×15	0.069	0.200	805	8×20	0.052	0.160	1050
680	8×11.5	0.068	0.210	800	8×15	0.056	0.170	995	10×16	0.038	0.120	1430
820	8×15	0.056	0.170	995	8×20	0.052	0.160	1050	10×20	0.035	0.110	1520
1000	8×15	0.053	0.160	1030	8×20	0.041	0.130	1250	10×20	0.023	0.069	1820
1200	8×20	0.041	0.130	1250	10×20	0.023	0.069	1820	10×25	0.022	0.066	2150
1500	10×20	0.023	0.069	1820	10×25	0.022	0.066	2150	12.5×20	0.021	0.053	2360
2200	10×25	0.022	0.066	2150	12.5×20	0.021	0.053	2360	12.5×25	0.018	0.045	2770
2700	10×30	0.022	0.066	2200	12.5×20	0.021	0.053	2395	12.5×30	0.016	0.041	3290
3300	12.5×20	0.021	0.053	2360	12.5×25	0.018	0.045	2770	12.5×35	0.015	0.039	3400
3900	12.5×25	0.018	0.045	2770	12.5×30	0.016	0.041	3290	16×25	0.016	0.043	3460
4700	12.5×30	0.016	0.041	3290	12.5×35	0.015	0.039	3400	16×31.5	0.016	0.043	3500
5600	12.5×35	0.015	0.039	3400	12.5×40	0.016	0.043	3460	16×35.5	0.015	0.042	3540
6800	12.5×40	0.016	0.043	3460	16×31.5	0.017	0.040	3500	16×40	0.015	0.040	3585

■Impedance[Max.Value Ω] at 20°C 100kHz

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

Nominal Capacitance (uF)	25V				35V				50V			
	Case Size ΦD×L (mm)	Impedance (Ωmax/100kHz)		Max. Rated ripple current @105°C100kHz (mA rms)	Case Size ΦD×L (mm)	Impedance (Ωmax/100kHz)		Max. Rated ripple current @105°C100kHz (mA rms)	Case Size ΦD×L (mm)	Impedance (Ωmax/100kHz)		Max. Rated ripple current @105°C100kHz (mA rms)
		20°C	-10°C			20°C	-10°C			20°C	-10°C	
56	6.3×11	0.880	0.900	270	6.3×11	0.760	1.240	405	8×11.5	0.640	1.400	385
68	6.3×11	0.660	0.850	290	8×11.5	0.560	0.760	430	8×11.5	0.480	0.900	405
100	6.3×11	0.430	0.500	405	8×11.5	0.380	0.560	450	8×11.5	0.220	0.630	724
150	8×11.5	0.120	0.400	415	8×11.5	0.072	0.220	760	8×15	0.061	0.180	979
220	8×11.5	0.072	0.220	760	8×15	0.056	0.170	995	10×16	0.042	0.120	1370
330	8×15	0.056	0.170	995	10×16	0.038	0.120	1430	10×25	0.028	0.085	1870
470	10×16	0.038	0.120	1430	10×20	0.023	0.069	1820	12.5×20	0.027	0.068	2050
560	10×20	0.035	0.110	1505	10×25	0.022	0.066	2150	12.5×25	0.023	0.059	2410
680	10×20	0.023	0.069	1820	12.5×20	0.021	0.053	2360	12.5×30	0.021	0.052	2860
820	10×25	0.022	0.066	2150	12.5×20	0.020	0.052	2410	12.5×35	0.019	0.051	2960
1000	12.5×20	0.021	0.053	2360	12.5×25	0.018	0.045	2770	16×25	0.021	0.056	3010
1200	12.5×25	0.021	0.053	2400	12.5×30	0.016	0.041	3290				
1500	12.5×25	0.018	0.045	2770	12.5×35	0.015	0.039	3400				
2200	12.5×35	0.015	0.039	3400	16×31.5	0.015	0.039	3500				
2700	16×25	0.016	0.043	3460								