

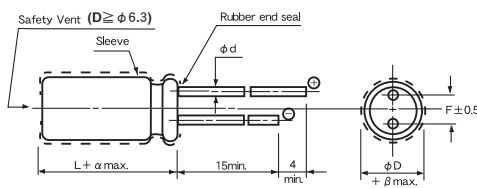
●低インピーダンス標準品

UTWRZシリーズ JIS C5101
CE-04
(耐洗浄品)

■特徴

- ・非4級塩系の電解液を使用し、高周波平滑用として小形に設計した製品です。特に高周波のインピーダンスを低く抑えてあります。
- ・寿命特性も105℃ 5000時間を保証した高安定化製品です。(但しφ5、φ6.3、φ8は2000時間、φ10は3000時間保証)

■寸法図/DIAGRAM OF DIMENSIONS



●LOW-IMPEDANCE STANDARD TYPE

TYPE UTWRZ JIS C5101
CE-04
(Washable product)

■FEATURES

- ・ This is a compact product for high-frequency smoothing, in which non-quaternary salt electrolyte is used. Especially, the impedance of high frequency is kept low.
- ・ This product is highly stable with the guaranteed service life of 5,000 hours at 105℃.
(φ5, φ6.3, and φ8 : 2,000hrs ; φ10 : 3,000hrs)

Unit : mm

φD	5	6.3	8	10	12.5	16	18
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
β	0.5				1.0		

L < 20 α = 1
L ≥ 20 α = 2

■性能/PERFORMANCE SPECIFICATIONS

カテゴリ温度範囲	CATEGORY TEMPERATURE RANGE	-55℃~+105℃						
標準静電容量許容差	STANDARD CAPACITANCE TOLERANCE	-20%~+20% (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)	W. V	6.3	10	16	25	35	50
		tan δ	0.22	0.19	0.16	0.14	0.12	0.10
When the capacitance exceed 1,000 μF, the value of tan δ is increased by 0.02 for each increment of 1,000 μF or its fraction.								
耐久性 105℃ 5000時間 定格使用電圧印加 (φD ≤ 8 : 2000時間, φ10 : 3000時間)	ENDURANCE APPLICATION OF RATED OPERATING VOLTAGE, AT 105℃ FOR 5000HOURS. (φD ≤ 8 : 2000Hr, φ10 : 3000Hr)	CAPACITANCE CHANGE : LESS THAN 20% OF THE INITIAL MEASURED VALUE. DISSIPATION FACTOR : LESS THAN 200% OF THE INITIAL SPECIFIED VALUE. LEAKAGE CURRENT : LESS THAN THE INITIAL SPECIFIED VALUE.						
低温特性 (+20℃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℃, 120Hz. MAX. VALUE.)	W. V	-25℃/+20℃	-55℃/+20℃	W. V	-25℃/+20℃	-55℃/+20℃	
		6.3	2	5	25	2	3	
		10	2	5	35	2	3	
		16	2	4	50	2	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

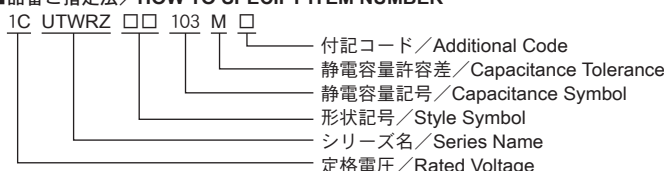
リップル周波数が標準品一覧表の規定値と異なる場合には、下表の係数を乗じた値以下でご使用下さい。

When the ripple frequency differs from the 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

μF \ f(Hz)	50	120	1k	10k	100k
0.47 ~ 6.8	0.35	0.42	0.60	0.80	1.0
10 ~ 39	0.45	0.55	0.75	0.90	1.0
47 ~ 390	0.60	0.70	0.85	0.95	1.0
470 ~ 1800	0.65	0.75	0.90	0.98	1.0
2200 ~ 15000	0.75	0.80	0.95	1.00	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 Current [Max.Value mA] at 105°C 100kHz

(mm)

W.V μF	6.3(0J)			10(1A)			16(1C)			25(1E)			35(1V)			50(1H)		
	φ D × L	Impedance	Ripple	φ D × L	Impedance	Ripple	φ D × L	Impedance	Ripple	φ D × L	Impedance	Ripple	φ D × L	Impedance	Ripple	φ D × L	Impedance	Ripple
0.47 (R47)																5 × 11	6.0	130
0.68 (R68)																5 × 11	5.2	130
1.0 (010)																5 × 11	4.0	130
1.5 (1R5)																5 × 11	3.6	130
2.2 (2R2)																5 × 11	3.0	130
3.3 (3R3)																5 × 11	2.8	130
4.7 (4R7)													5 × 11	0.90	150	5 × 11	2.5	130
6.8 (6R8)													5 × 11	0.90	150	5 × 11	2.3	160
10 (100)													5 × 11	0.90	150	5 × 11	2.0	160
12 (120)													5 × 11	0.90	150	5 × 11	1.7	160
15 (150)													5 × 11	0.90	150	5 × 11	1.6	200
18 (180)													5 × 11	0.90	150	5 × 11	1.5	200
22 (220)													5 × 11	0.90	150	5 × 11	1.4	200
27 (270)													5 × 11	0.90	150	6.3 × 11	0.70	300
33 (330)										5 × 11	0.90	150	5 × 11	0.90	150	6.3 × 11	0.60	300
39 (390)										5 × 11	0.90	150	6.3 × 11	0.45	263	6.3 × 11	0.60	300
47 (470)							5 × 11	0.75	180	5 × 11	0.75	180	6.3 × 11	0.35	290	6.3 × 11	0.60	300
56 (560)							5 × 11	0.75	180	6.3 × 11	0.45	263	6.3 × 11	0.35	290	8 × 11.5	0.38	305
68 (680)							6.3 × 11	0.45	263	6.3 × 11	0.45	263	8 × 11.5	0.20	410	8 × 11.5	0.38	305
82 (820)							6.3 × 11	0.45	263	6.3 × 11	0.35	290	8 × 11.5	0.20	410	8 × 11.5	0.35	340
100 (101)	5 × 11	0.75	180	5 × 11	0.75	180	6.3 × 11	0.35	290	6.3 × 11	0.35	290	8 × 11.5	0.18	450	8 × 11.5	0.33	340
120 (121)	5 × 11	0.75	180	6.3 × 11	0.45	263	6.3 × 11	0.35	290	8 × 11.5	0.20	410	8 × 11.5	0.18	450	10 × 12.5	0.25	490
150 (151)	6.3 × 11	0.35	290	6.3 × 11	0.35	290	6.3 × 11	0.35	290	8 × 11.5	0.18	450	8 × 11.5	0.18	450	10 × 12.5	0.25	490
180 (181)	6.3 × 11	0.35	290	6.3 × 11	0.35	290	8 × 11.5	0.20	410	8 × 11.5	0.18	450	10 × 12.5	0.13	607	10 × 16	0.19	650
220 (221)	6.3 × 11	0.35	290	6.3 × 11	0.35	290	8 × 11.5	0.18	450	8 × 11.5	0.18	450	10 × 12.5	0.12	660	10 × 16	0.19	650
270 (271)	6.3 × 11	0.35	290	8 × 11.5	0.21	410	8 × 11.5	0.18	450	10 × 12.5	0.13	607	10 × 16	0.086	802	10 × 20	0.16	730
330 (331)	6.3 × 11	0.35	290	8 × 11.5	0.18	450	8 × 11.5	0.18	450	10 × 12.5	0.12	660	10 × 16	0.080	850	10 × 20	0.14	810
390 (391)	8 × 11.5	0.21	410	8 × 11.5	0.18	450	10 × 12.5	0.13	607	10 × 16	0.086	802	10 × 20	0.060	1,100	12.5 × 20	0.11	1250
470 (471)	8 × 11.5	0.18	450	8 × 11.5	0.18	450	10 × 12.5	0.12	660	10 × 16	0.080	850	10 × 20	0.060	1,100	12.5 × 20	0.11	1250
560 (561)	8 × 11.5	0.18	450	10 × 12.5	0.14	607	10 × 16	0.086	802	10 × 20	0.060	1100	12.5 × 20	0.051	1,325	12.5 × 20	0.082	1250
680 (681)	10 × 12.5	0.12	660	10 × 12.5	0.12	680	10 × 16	0.080	850	10 × 20	0.060	1100	12.5 × 20	0.050	1,400	12.5 × 20	0.082	1250
820 (821)	10 × 12.5	0.12	660	10 × 16	0.086	802	10 × 20	0.060	1100	12.5 × 20	0.051	1325	12.5 × 25	0.041	1,625	16 × 25	0.059	1950
1000 (102)	10 × 12.5	0.12	660	10 × 16	0.080	850	10 × 20	0.060	1100	12.5 × 20	0.050	1400	12.5 × 25	0.038	1700	16 × 25	0.054	1950
1200 (122)	10 × 16	0.080	850	10 × 20	0.060	1100	12.5 × 20	0.051	1325	12.5 × 25	0.038	1700	16 × 25	0.028	2000	16 × 31.5	0.048	2000
1500 (152)	10 × 20	0.060	1000	10 × 20	0.060	1100	12.5 × 20	0.050	1400	16 × 25	0.025	2100	16 × 25	0.025	2100	16 × 31.5	0.048	2000
1800 (182)	10 × 20	0.052	1100	12.5 × 20	0.051	1320	12.5 × 25	0.041	1625	16 × 25	0.025	2100	16 × 25	0.025	2100	18 × 31.5	0.045	2200
2200 (222)	12.5 × 20	0.050	1400	12.5 × 20	0.050	1400	12.5 × 25	0.038	1700	16 × 25	0.025	2100	16 × 31.5	0.022	2600	18 × 31.5	0.043	2300
2700 (272)	12.5 × 20	0.050	1400	12.5 × 25	0.038	1700	16 × 25	0.028	2000	16 × 25	0.025	2100	18 × 31.5	0.021	2800			
3300 (332)	12.5 × 20	0.050	1400	12.5 × 25	0.038	1700	16 × 25	0.025	2100	16 × 31.5	0.022	2600	18 × 35.5	0.020	3000			
3900 (392)	12.5 × 25	0.038	1700	16 × 25	0.028	2000	16 × 25	0.025	2100	18 × 31.5	0.021	2800	18 × 40	0.019	3450			
4700 (472)	12.5 × 25	0.025	2100	16 × 25	0.025	2100	16 × 31.5	0.022	2600	18 × 35.5	0.020	3000	18 × 40	0.018	3600			
5600 (562)	16 × 25	0.025	2100	16 × 25	0.025	2100	18 × 31.5	0.021	2800	18 × 40	0.019	4500						
6800 (682)	16 × 25	0.025	2100	16 × 31.5	0.022	2600	18 × 35.5	0.020	3000	18 × 40	0.018	3600						
8200 (822)	16 × 31.5	0.022	2600	18 × 31.5	0.021	2800	18 × 35.5	0.020	3000									
10000 (103)	16 × 31.5	0.022	2600	18 × 35.5	0.020	3000	18 × 40	0.018	3600									
12000 (123)	16 × 31.5	0.021	2800	18 × 35.5	0.020	3000												
15000 (153)	18 × 31.5	0.020	3000	18 × 40	0.018	3600												