

UFW

Standard, For Audio Equipment



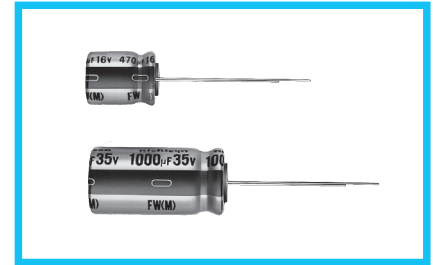
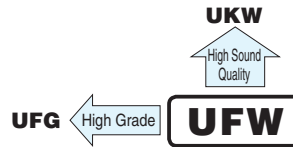
Smaller



For Audio Use

Anti-Solvent
Feature

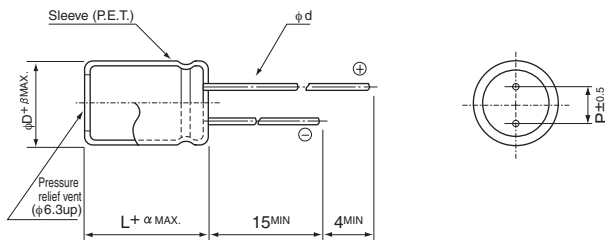
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).



Specifications

Item	Performance Characteristics																											
Category Temperature Range	-40 to +85°C																											
Rated Voltage Range	6.3 to 100V																											
Rated Capacitance Range	2.2 to 33000μF																											
Capacitance Tolerance	±20% at 120Hz, 20°C																											
Leakage Current	After 1 minute's application of rated voltage at 20°C, leakage current is not more than 0.03 CV or 4 (μA) , whichever is greater. After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.01 CV or 3 (μA) , whichever is greater.																											
Tangent of loss angle (tan δ)	<table><tr><td>Rated voltage (V)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td></tr><tr><td>tan δ (MAX.)</td><td>0.28</td><td>0.24</td><td>0.20</td><td>0.16</td><td>0.14</td><td>0.12</td><td>0.10</td><td>0.08</td></tr></table>									Rated voltage (V)	6.3	10	16	25	35	50	63	100	tan δ (MAX.)	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	Measurement frequency : 120Hz at 20°C
	Rated voltage (V)	6.3	10	16	25	35	50	63	100																			
	tan δ (MAX.)	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08																			
For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF.																												
Stability at Low Temperature	Measurement frequency : 120Hz																											
	Rated voltage (V)		6.3	10	16	25	35	50	63	100																		
	Impedance ratio (MAX.)	Z-25°C / Z+20°C	5	4	3	2	2	2	2	2																		
		Z-40°C / Z+20°C	12	10	8	5	4	3	3	3																		
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at 85°C.																											
	Capacitance change		Within ±20% of the initial capacitance value																									
	tan δ		200% or less than the initial specified value																									
	Leakage current		Less than or equal to the initial specified value																									
Shelf Life	After storing the capacitors under no load at 85°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed above.																											
Marking	Printed with black color letter on Gold sleeve.																											

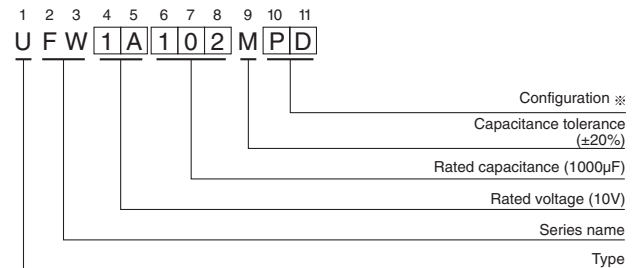
Radial Lead Type



	(mm)									
φD	5	6.3	8	10	12.5	16	18	20	22	25
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10	10	12.5
φd	0.5	0.5	0.6	0.6	0.6	0.8	0.8	1.0	1.0	1.0
β	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0

α	(φD < 20) 1.5
	(φD ≥ 20) 2.0

Type numbering system (Example : 10V 1000µF)



※ Configuration

φ D	Pb-free leadwire Pb-free PET sleeve
5	DD
6.3	ED
8 · 10	PD
12.5 to 18	HD
20 to 25	RD

- Please refer to page 20 about the end seal configuration.

Please refer to page 20, 21, 22 about the formed or taped product spec.
Please refer to page 4 for the minimum order quantity.

●Dimension table in next page.

UFW

■ Dimensions

Cap.(μF)	Code	V		6.3		10		16		25		35		50		63		100	
		0J		1A		1C		1E		1V		1H		1J		2A			
2.2	2R2													5 × 11	23			5 × 11	30
3.3	3R3													5 × 11	35			5 × 11	40
4.7	4R7													5 × 11	40			5 × 11	45
10	100													5 × 11	65	5 × 11	70	6.3 × 11	75
22	220													5 × 11	95	5 × 11	100	6.3 × 11	120
33	330									5 × 11	105	5 × 11	120	6.3 × 11	140	8 × 11.5	160		
47	470							5 × 11	115	5 × 11	120	6.3 × 11	150	6.3 × 11	165	10 × 12.5	210		
100	101			5 × 11	145	5 × 11	155	6.3 × 11	185	6.3 × 11	200	8 × 11.5	250	10 × 12.5	300	10 × 20	350		
220	221			6.3 × 11	230	6.3 × 11	250	8 × 11.5	320	10 × 12.5	370	10 × 12.5	410	10 × 16	470	12.5 × 25	600		
330	331	6.3 × 11	265	6.3 × 11	270	8 × 11.5	360	10 × 12.5	420	10 × 12.5	470	10 × 16	570	10 × 20	650	12.5 × 25	750		
470	471	6.3 × 11	310	6.3 × 11	330	8 × 11.5	420	10 × 12.5	530	10 × 16	630	12.5 × 20	760	12.5 × 20	880	16 × 25	1000		
1000	102	8 × 11.5	530	10 × 12.5	630	10 × 16	770	10 × 20	950	12.5 × 20	1100	12.5 × 25	1300	16 × 25	1300	18 × 40	1370		
2200	222	10 × 20	980	10 × 20	1050	12.5 × 20	1250	12.5 × 25	1550	16 × 25	1800	16 × 35.5	2090	18 × 35.5	2200	22 × 50	2400		
3300	332	10 × 20	1170	12.5 × 20	1420	12.5 × 25	1700	16 × 25	1950	16 × 35.5	2220	18 × 35.5	2360	20 × 40	2700	25 × 50	2900		
4700	472	12.5 × 20	1350	12.5 × 25	1800	16 × 25	2100	16 × 31.5	2360	18 × 35.5	2490	20 × 40	2900	22 × 50	3400				
6800	682	12.5 × 25	1600	16 × 25	2150	16 × 35.5	2500	18 × 35.5	2590	20 × 40	3000	22 × 50	3500	25 × 50	3500				
10000	103	16 × 25	2000	16 × 35.5	2500	18 × 35.5	2640	20 × 40	3000	22 × 50	3700	25 × 50	4000						
15000	153	16 × 35.5	2550	18 × 35.5	2720	20 × 40	3400	22 × 50	3800	25 × 50	4300								
22000	223	18 × 40	3200	20 × 40	3700	22 × 50	4200	25 × 50	4500										
33000	333	22 × 50	3900	22 × 50	4500	25 × 50	4800											Case size φD × L (mm)	Rated ripple

Rated ripple current (mA_{rms}) at 85°C 120Hz

● Frequency coefficient of rated ripple current

Cap.(μF)	50Hz	120Hz	300Hz	1kHz	10kHz or more
2.2 to 47	0.75	1.00	1.35	1.57	2.00
100 to 470	0.80	1.00	1.23	1.34	1.50
1000 to 33000	0.85	1.00	1.10	1.13	1.15