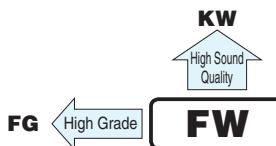


ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

FW Standard, For Audio Equipment
series

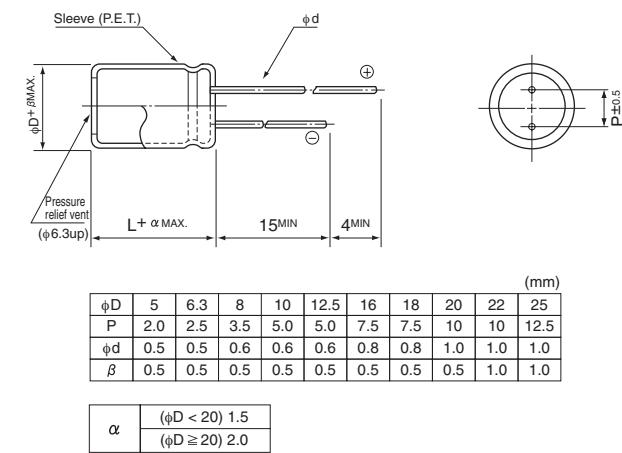
- Compliant to the RoHS directive (2011/65/EU).



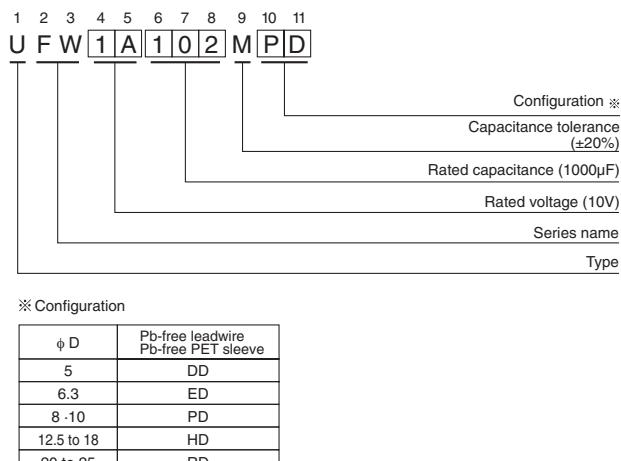
■ Specifications

Item	Performance Characteristics								
Category Temperature Range	-40 to +85°C								
Rated Voltage Range	6.3 to 100V								
Rated Capacitance Range	0.1 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)	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								
Stability at Low Temperature	For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF.								
	Measurement frequency : 120Hz								
	Rated voltage (V)	6.3	10	16	25	35	50	63	100
	Impedance ratio Z-25°C / Z+20°C	5	4	3	2	2	2	2	2
	ZT / Z20 (MAX.) 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



Type numbering system (Example : 10V 1000μF)



- 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.

CAT.8100D

ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

FW series

Dimensions

Cap.(μ F)	Code	V	6.3		10		16		25		35		50		63		100		
		0J	1A	1C	1E	1V	1H	1J	2A	5x11	35	5x11	10	5x11	21	5x11	4.7	5x11	7.0
0.1	0R1									5x11	1.1			5x11	2.1				
0.22	R22									5x11	2.4			5x11	4.7				
0.33	R33									5x11	3.5			5x11	7.0				
0.47	R47									5x11	5.0			5x11	10				
1	010									5x11	10			5x11	21				
2.2	2R2									5x11	23			5x11	30				
3.3	3R3									5x11	35			5x11	40				
4.7	4R7									5x11	40			5x11	45				
10	100									5x11	65	5x11	70	6.3x11	75				
22	220									5x11	95	5x11	100	6.3x11	120				
33	330									5x11	105	5x11	120	6.3x11	140	8x11.5	160		
47	470									5x11	115	5x11	120	6.3x11	150	6.3x11	165	10x12.5	210
100	101			5x11	145	5x11	155	6.3x11	185	6.3x11	200	8x11.5	250	10x12.5	300	10x20	350		
220	221			6.3x11	230	6.3x11	250	8x11.5	320	10x12.5	370	10x12.5	410	10x16	470	12.5x25	600		
330	331	6.3x11	265	6.3x11	270	8x11.5	360	10x12.5	420	10x12.5	470	10x16	570	10x20	650	12.5x25	750		
470	471	6.3x11	310	6.3x11	330	8x11.5	420	10x12.5	530	10x16	630	12.5x20	760	12.5x20	880	16x25	1000		
1000	102	8x11.5	530	10x12.5	630	10x16	770	10x20	950	12.5x20	1100	12.5x25	1300	16x25	1300	18x40	1370		
2200	222	10x20	980	10x20	1050	12.5x20	1250	12.5x25	1550	16x25	1800	16x35.5	2080	18x35.5	2200	22x50	2400		
3300	332	10x20	1170	12.5x20	1420	12.5x25	1700	16x25	1950	16x35.5	2220	18x35.5	2360	20x40	2700	25x50	2900		
4700	472	12.5x20	1350	12.5x25	1800	16x25	2100	16x31.5	2360	18x35.5	2490	20x40	2900	22x50	3400				
6800	682	12.5x25	1600	16x25	2150	16x35.5	2500	18x35.5	2590	20x40	3000	22x50	3500	25x50	3500				
10000	103	16x25	2000	16x35.5	2500	18x35.5	2640	20x40	3000	22x50	3700	25x50	4000						
15000	153	16x35.5	2550	18x35.5	2720	20x40	3400	22x50	3800	25x50	4300								
22000	223	18x40	3200	20x40	3700	22x50	4200	25x50	4500										
33000	333	22x50	3900	22x50	4500	25x50	4800											Case size φD x L (mm)	Rated ripple

Rated ripple current (mA rms) at 85°C 120Hz

Frequency coefficient of rated ripple current

Cap.(μ F)	Frequency	50Hz	120Hz	300Hz	1kHz	10kHz or more
0.1 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

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