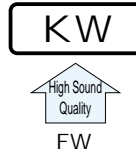


ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

NEW

KW series Standard, For Audio Equipment

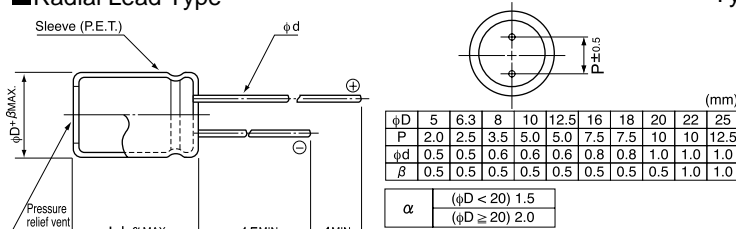


- Realization of a harmonious balance of sound quality, made possible by the development of new electrolyte.
- Most suited for AV equipment like DVD, MD.
- Adapted to the RoHS directive (2002/95/EC).

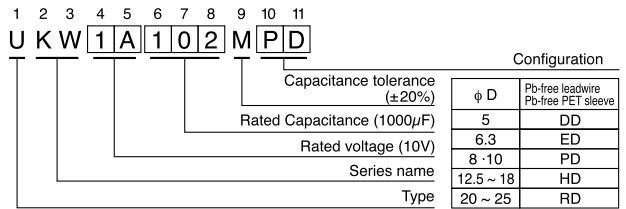
Specifications

Item	Performance Characteristics							
Category Temperature Range	-40 ~ +85°C							
Rated Voltage Range	6.3 ~ 100V							
Rated Capacitance Range	0.1 ~ 33000μF							
Capacitance Tolerance	±20% at 120Hz, 20°C							
Leakage Current	After 1 minute's application of rated voltage, leakage current is not more than 0.03 CV or 4 (μA), whichever is greater. After 2 minutes' application of rated voltage, leakage current is not more than 0.01 CV or 3 (μA), whichever is greater.							
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, Temperature : 20°C						
Stability at Low Temperature	Measurement frequency : 120Hz							
	Rated voltage (V)	6.3 10 16 25 35 50 63 100						
	Impedance ratio ZT / Z20 (MAX.)	Z-25°C / Z+20°C 5 4 3 2 2 2 2 Z-40°C / Z+20°C 12 10 8 5 4 3 3						
Endurance	After 2000 hours' application of voltage at 85°C, capacitors meet the characteristic requirements listed at right.	<table border="1"> <tr> <td>Capacitance change</td> <td>Within ±20% of initial value</td> </tr> <tr> <td>tan δ</td> <td>200% or less of initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>Initial specified value or less</td> </tr> </table>	Capacitance change	Within ±20% of initial value	tan δ	200% or less of initial specified value	Leakage current	Initial specified value or less
Capacitance change	Within ±20% of initial value							
tan δ	200% or less of initial specified value							
Leakage current	Initial specified value or less							
Shelf Life	After storing the capacitors under no load at 85°C for 1000 hours, and after performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they will meet the specified value for endurance characteristics listed above.							
Marking	Printed with gold color letter on black sleeve.							

Radial Lead Type



Type numbering system (Example : 10V 1000μF)



• Please refer to page 21 about the end seal configuration.

Dimensions

Cap. (μF)	V	6.3	10	16	25	35	50	63	100								
Code	0J	1A	1C	1E	1V	1H	1J	2A									
0.1	0R1						5×11	1.1	5×11	2.1							
0.22	R22						5×11	2.4	5×11	4.7							
0.33	R33						5×11	3.5	5×11	7.0							
0.47	R47						5×11	5.0	5×11	10							
1	O10						5×11	10	5×11	21							
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	75							
22	220						5×11	95	5×11	120							
33	330						5×11	120	6.3×11	140							
47	470					5×11	120	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	10×16	470	12.5×25	600			
330	331	6.3×11	265	6.3×11	270	8×11.5	360	10×12.5	420	10×16	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										

Frequency coefficient of rated ripple current

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

Please refer to page 21, 22, 23 about the formed or taped product spec.
Please refer to page 3 for the minimum order quantity.

Rated Ripple (mArms) at 85°C 120Hz

CAT.8100V