

ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

KW series

Standard, For Audio Equipment



KW

High Sound Quality
FW

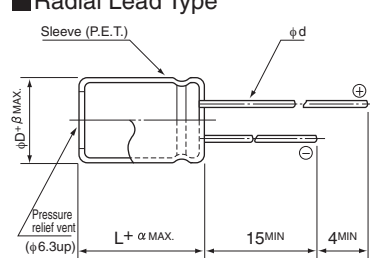


- Realization of a harmonious balance of sound quality, made possible by the development of new electrolyte.
- Most suited for AV equipment like DVD, MD.
- Compliant to the RoHS directive (2011/65/EU).

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)	<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																			
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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 ZT / Z20 (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 sroring 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 gold color letter on black sleeve.																											

Radial Lead Type



	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	12.5
φd	0.5	0.5	0.6	0.6	0.6	0.8	0.8	1.0	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	1.0
α	(φD < 20) 1.5 (φD ≥ 20) 2.0										

Type numbering system (Example : 10V 1000µF)

1	2	3	4	5	6	7	8	9	10	11												
U	K	W	1	A	1	0	2	M	P	D												
Configuration																						
Capacitance tolerance (±20%)																						
Rated capacitance (1000µF)																						
Rated voltage (10V)																						
Series name																						
Type																						
<table><tr><td>φ D</td><td>Pb-free leadwire Pb-free PET sleeve</td></tr><tr><td>5</td><td>DD</td></tr><tr><td>6.3</td><td>ED</td></tr><tr><td>8 - 10</td><td>PD</td></tr><tr><td>12.5 to 18</td><td>HD</td></tr><tr><td>20 to 25</td><td>RD</td></tr></table>											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
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