

ALUMINUM ELECTROLYTIC CAPACITORS

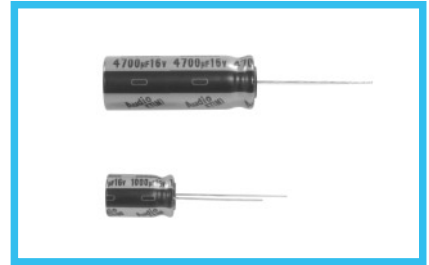


KT For General Audio Equipment,
Wide Temperature Range.
series



KT

High Sound Quality
VZ

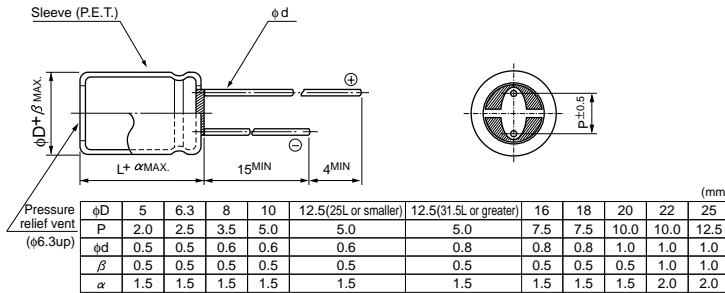


- 105°C standard for audio equipment.
- Compliant to the RoHS directive (2002/95/EC).

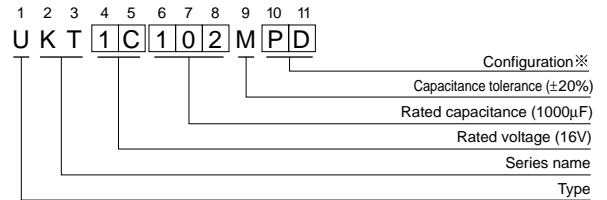
Specifications

Item	Performance Characteristics																								
Category Temperature Range	-55 to +105°C																								
Rated Voltage Range	6.3 to 50V																								
Rated Capacitance Range	0.1 to 33000μF																								
Capacitance Tolerance	±20% at 120Hz, 20°C																								
Leakage Current	After 1 minute's application of rated voltage, leakage current is not more than 0.03CV or 4 (μA), whichever is greater. After 2 minutes' application of rated voltage, leakage current is not more than 0.01CV or 3 (μA), whichever is greater.																								
Tangent of loss angle (tan δ)	<table border="1"> <tr> <th>Rated voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> <tr> <td>tan δ (MAX.)</td> <td>0.30</td> <td>0.26</td> <td>0.22</td> <td>0.18</td> <td>0.16</td> <td>0.14</td> </tr> </table> <p>Measurement frequency : 120Hz, Temperature : 20°C</p> <p>For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF</p>	Rated voltage (V)	6.3	10	16	25	35	50	tan δ (MAX.)	0.30	0.26	0.22	0.18	0.16	0.14										
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Stability at Low Temperature	<table border="1"> <tr> <th colspan="2">Rated voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> <tr> <td rowspan="2">Impedance ratio ZT / Z20 (MAX.)</td> <td>Z-25°C / Z+20°C</td> <td>5</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-40°C / Z+20°C</td> <td>10</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> </tr> </table> <p>Measurement frequency : 120Hz</p>	Rated voltage (V)		6.3	10	16	25	35	50	Impedance ratio ZT / Z20 (MAX.)	Z-25°C / Z+20°C	5	4	3	2	2	2	Z-40°C / Z+20°C	10	8	6	4	3	3	
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Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 1000 hours at 105°C.	<table border="1"> <tr> <td>Capacitance change</td> <td>Within ±20% of the initial capacitance value</td> </tr> <tr> <td>tan δ</td> <td>200% or less than the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>Less than or equal to the initial specified value</td> </tr> </table>	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																	
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Shelf Life	After storing the capacitors under no load at 105°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 purpl blue sleeve.																								

Radial Lead Type



Type numbering system (Example : 16V 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

Dimensions

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

Cap.(μF)	code	6.3		10		16		25		35		50	
		0J		1A		1C		1E		1V		1H	
0.1	0R1											5 × 11	1.3
0.22	R22											5 × 11	2.9
0.33	R33											5 × 11	4.3
0.47	R47											5 × 11	7.0
1	010											5 × 11	13
2.2	2R2											5 × 11	20
3.3	3R3											5 × 11	25
4.7	4R7											5 × 11	30
10	100							5 × 11	35	5 × 11	36	5 × 11	46
22	220		5 × 11	45	5 × 11	45	5 × 11	54	5 × 11	58	5 × 11	61	68
33	330		5 × 11	55	5 × 11	58	5 × 11	65	5 × 11	68	5 × 11	75	90
47	470		5 × 11	65	5 × 11	68	5 × 11	79	5 × 11	83	5 × 11	93	115
100	101		5 × 11	95	5 × 11	105	5 × 11	115	6.3 × 11	140	6.3 × 11	150	190
220	221		6.3 × 11	160	6.3 × 11	175	6.3 × 11	190	8 × 11.5	240	8 × 11.5	260	300
330	331		6.3 × 11	195	8 × 11.5	240	8 × 11.5	265	8 × 11.5	290	10 × 12.5	350	410
470	471		8 × 11.5	270	8 × 11.5	280	8 × 11.5	315	10 × 12.5	380	10 × 16	460	530
1000	102		10 × 12.5	420	10 × 16	500	10 × 16	560	10 × 20	680	12.5 × 25	860	1040
2200	222		10 × 20	710	12.5 × 20	810	12.5 × 20	920	12.5 × 31.5	1200	12.5 × 40	1260	1470
3300	332		12.5 × 20	910	12.5 × 25	1050	12.5 × 31.5	1270	12.5 × 35.5	1400	16 × 35.5	1610	1770
4700	472		12.5 × 25	1120	12.5 × 35.5	1300	12.5 × 35.5	1480	16 × 31.5	1710	18 × 35.5	1910	2100
6800	682		12.5 × 35.5	1360	12.5 × 40	1570	16 × 31.5	1780	18 × 35.5	2040	20 × 40	2150	2500
10000	103		12.5 × 40	1650	16 × 35.5	1890	18 × 35.5	2060	20 × 40	2150	22 × 50	2650	
15000	153		16 × 35.5	2010	18 × 40	2400	20 × 40	2430	22 × 50	2750			
22000	223		18 × 40	2350	22 × 40	2650	22 × 50	3000					
33000	333		22 × 50	2800	25 × 50	2880							

Rated ripple current (mA rms) at 105°C 120Hz

Frequency coefficient of rated ripple current

Cap.(μF)	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

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

CAT.8100Z