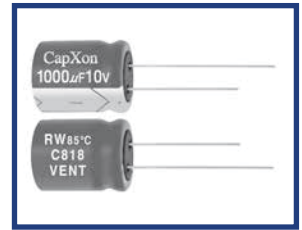


RW Series 85°C

Features

- ◆ Standard for audio equipment.
- ◆ RoHS Compliant



Specifications

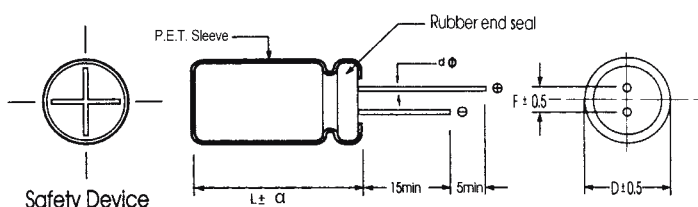
Item	Performance Characteristics																											
Operating Temperature Range	-40~+85°C																											
Rated Voltage Range	6.3~100 VDC																											
Capacitance Range	0.1 to 33000 µ F																											
Capacitance Tolerance	±20%(120Hz,+20°C)																											
Leakage Current (+20°C,max.)	$I \leq 0.01 CV$ or 3 (µ A) (After 1 minute with rated working voltage applied.)																											
Dissipation Factor (tan δ , at 20°C , 120Hz)	<table border="1"> <tr> <td>Working Voltage(VDC)</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>D.F.(%)max.</td> <td>28</td> <td>24</td> <td>20</td> <td>16</td> <td>14</td> <td>12</td> <td>10</td> <td>8</td> </tr> </table>	Working Voltage(VDC)	6.3	10	16	25	35	50	63	100	D.F.(%)max.	28	24	20	16	14	12	10	8									
	Working Voltage(VDC)	6.3	10	16	25	35	50	63	100																			
D.F.(%)max.	28	24	20	16	14	12	10	8																				
For capacitance > 1000 µ F, add 2% per another 1000 µ F.																												
Low Temperature Characteristics (at 120Hz)	Impedance ratio max																											
	<table border="1"> <tr> <td>Working voltage(VDC)</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>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> <td>2</td> <td>2</td> </tr> <tr> <td>Z-40°C / Z+20°C</td> <td>12</td> <td>10</td> <td>8</td> <td>5</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table>	Working voltage(VDC)	6.3	10	16	25	35	50	63	100	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
	Working voltage(VDC)	6.3	10	16	25	35	50	63	100																			
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	Test condition Duration time :2000 Hrs Ambient temperature :+85°C Applied voltage :Rated DC working voltage After test requirement at +20°C Capacitance change : ≤ ±20% of the initial measured value Dissipation factor : ≤200% of the initial specified value Leakage current : ≤The initial specified value																											
Shelf Life	Test condition Duration time :1000 Hrs Ambient temperature :+85°C Applied voltage :None After test requirement at +20°C :Same limits as Endurance. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.																											

For Audio Equipment

Multiplier for Ripple Current vs. Frequency

CAP(µ F)\Frequency(Hz)	50(60)	120	300	1K	10K
CAP ≤ 47	0.75	1.00	1.35	1.57	1.20
100 < CAP ≤ 470	0.80	1.00	1.23	1.34	1.50
1000 ≤ 33000	0.85	1.00	1.10	1.13	1.15

Diagram of Dimension:(unit:mm)



D φ	5	6.3	8	10	13	16	18	22
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10
d φ	0.5		L < 20 0.5	L ≥ 20 0.6	0.6		0.8	

α	D < 18	D = 18		D > 18
	1.5	L < 35.5 1.5	L ≥ 35.5 2.0	2.0

Case Size

φ D×L(mm)

Cap(μF) \ WV	6.3		10		16		25	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
47							5×11	117
100			5×11	162	5×11	155	6.3×11	187
220			6.3×11	247	6.3×11	265	8×11.5	325
330	6.3×11	282	6.3×11	300	8×11.5	365	10×12.5	415
470	6.3×11	330	6.3×11	355	8×11.5	445	10×12.5	535
1000	8×11.5	560	10×12.5	600	10×16	780	10×20	950
2200	10×20	1015	10×20	1075	13×20	1300	13×25	1550
3300	10×20	1245	13×20	1410	13×25	1700	16×25	1675
4700	13×20	1435	13×25	1800	16×25	2100	16×31.5	2380
6800	13×25	1600	16×25	2200	16×35.5	2520	18×35.5	2650
10000	16×25	2000	16×35.5	2450	18×35.5	2670	22×41	3000
15000	16×35.5	2620	18×35.5	2900	22×41	3400	22×51	3800
22000	18×41	3220	22×41	3700	22×51	4200		
33000	22×51	3900	22×51	4300				

Cap(μF) \ WV	35		50		63		100	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.1			5×11	2.1	5×11	1.5	5×11	2.1
0.22			5×11	2.7	5×11	3	5×11	4.7
0.33			5×11	4.2	5×11	5	5×11	7.5
0.47			5×11	6.0	5×11	7	5×11	11
1			5×11	12	5×11	15	5×11	21
2.2			5×11	24	5×11	28	5×11	31
3.3			5×11	35	5×11	35	5×11	40
4.7			5×11	41	5×11	45	5×11	46
10			5×11	65	5×11	70	6.3×11	75
22			5×11	97	5×11	107	6.3×11	125
33	5×11	107	5×11	120	6.3×11	137	8×11.5	165
47	5×11	125	6.3×11	150	6.3×11	172	10×12.5	220
100	6.3×11	205	8×11.5	255	10×12.5	300	10×20	370
220	10×12.5	370	10×12.5	417	10×16	485	13×25	615
330	10×12.5	475	10×16	580	10×20	670	13×25	755
470	10×16	630	13×20	770	13×20	880	16×25	1000
1000	13×20	1120	13×25	1320	16×25	1350	18×41	1500
2200	16×25	1650	16×35.5	2090	18×35.5	2220	22×51	2400
3300	16×35.5	2270	18×35.5	2430	22×41	2700		
4700	18×35.5	2540	22×41	2900	22×51	3400		
6800	22×41	3000	22×51	3500				

Ripple Current (mA, rms) at 85°C 120Hz