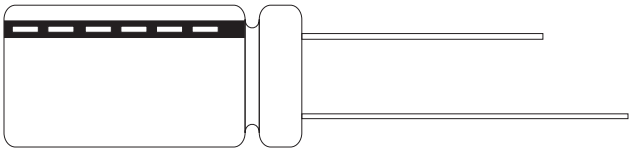
ALUMINUM ELECTROLYTIC CAPACITORS
RZD Series: Radial Low ESR

RFE INTERNATIONAL

RoHS

FEATURES

- •105°C, 2000 ~ 5000 hours assured.
- •Low ESR, suitable for computer mainboard.
- •Small size with large permissible ripple current.
- •RoHS Compliant

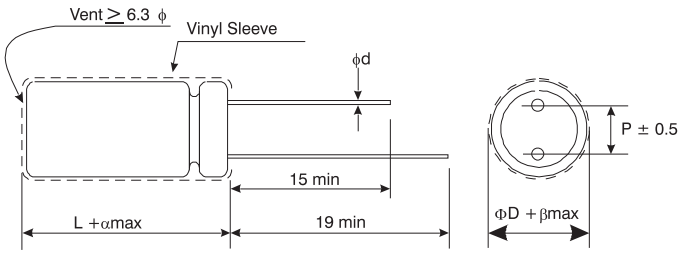


SPECIFICATIONS

Items	Performance								
Operating Temperature Range	-40℃ ~ +105℃								
Capacitance Tolerance	+20% (at 120Hz, 20℃)								
Leakage Current (at 20℃)	I = 0.01CV or 3 (μA) whichever is greater (after 2 minutes) Where, C = rated capacitance in μF. V = rated DC working voltage in V.								
Dissipation Factor (Tanφ at 120Hz, 20℃)	Rated Voltage		6.3	10	16	25	35	50	
	Tanφ (max)		0.22	0.19	0.16	0.14	0.12	0.10	
Low Temperature Characteristics (at 120Hz)	Rated Voltage		6.3	10	16	25	35	50	
	Impedance Ratio (max)	Z(-40℃) / Z (=20℃)	0.22	0.19	0.16	0.14	0.12	0.10	
Load Life Test	Test Time	2,000 hrs for D = 5 ~ 6.3mm							* Specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage applied for 2,000 / 5,000 hrs at 105℃ without voltage applied.
		3,000 hrs for D = 8mm							
		4,000 hrs for D = 10mm							
		5,000 hrs for D ≥ 12.5mm							
	Capacitance Change	Within ±20% of initial value							
	Dissipation Factor	Less than 200% of specified value							
	Leakage Current	Within specified value							
Shelf Life Test	Test Time	500 Hrs							* Specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 500 hrs at 105℃ without voltage applied.
	Capacitance Change	Within +20% of initial value							
	Dissipation Factor	Less than 200% of specified value							
	Leakage Current	Within specified value							
Ripple Current & Frequency Multipliers	Freq. (Hz) / Cap. (F)	60 (50)	120	1K	10K	100K			
	Under 33	0.45	0.55	0.75	0.90	1.0			
	39 to 330	0.60	0.70	0.85	0.95	1.0			
	470 to 1,000	0.65	0.75	0.90	0.98	1.0			
	1,200 ~ up	0.75	0.80	0.95	1.0	1.0			
Standards	Satisfies Characteristic W of JIS C 5141								

LEAD SPACING AND DIAMETER

φ D	5	6.3	8	10	13	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
φ d	0.5		0.6			0.8	
α	1.0			1.5			
β	0.5						



PART NUMBER EXAMPLE RZD 102 M 1C BK 100 200

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ALUMINUM ELECTROLYTIC CAPACITORS
RZD Series: Radial Low ESR

RoHS

DIMENSIONS AND PERMISSABLE RIPPLE CURRENT

Dimension: ϕD×L(mm) Ripple Current: mA/rms at 100Hz 105°C

V.DC / Item / φ D x L	6.3V (0J)					10V (1A)					16V (1C)				
	μF	Impedance (W, Max/100K Hz)		Ripple Current (MA/rms, 105℃)		μF	Impedance (W, Max/100K Hz)		Ripple Current (MA/rms, 105℃)		μF	Impedance (W,Max/100K Hz)		Ripple Current (MA/rms, 105℃)	
		20℃	-10℃	120Hz	100KHz		20℃	-10℃	120Hz	100KHz		20℃	-10℃	120Hz	100KHz
5.0 x 11	150	0.3	1.0	175	250	100	0.3	1.0	175	250	56	0.3	1.0	175	250
6.3 x 11	330	0.13	0.41	284	405	220	0.13	0.41	284	405	120	0.13	0.41	284	405
8.0 x 11.5	560	0.07	0.22	570	760	470	0.07	0.22	570	760	330	0.07	0.22	570	760
8.0 x 15	820	0.056	0.17	746	995	680	0.056	0.17	746	995	470	0.056	0.17	746	995
8.0 x 20	1200	0.041	0.13	1000	1250	1000	0.041	0.13	1000	1250	680	0.041	0.13	1000	1250
10.0 x 12.5	1000	0.53	0.16	773	1030	680	0.53	0.16	773	1030	470	0.53	0.16	773	1030
10.0 x 16	1200	0.038	0.12	1144	1430	1000	0.038	0.12	1144	1430	680	0.038	0.12	1144	1430
10.0 x 20	1500	0.023	0.069	1456	1820	1200	0.023	0.069	1456	1820	1000	0.023	0.069	1456	1820
10.0 x 25	2200	0.022	0.066	1720	2150	18500	0.022	0.066	1720	2150	1200	0.022	0.066	1720	2150
12.5 x 20	3300	0.021	0.053	1888	2360	2200	0.021	0.053	1888	2360	1500	0.021	0.053	1888	2360
12.5 x 25	3900	0.018	0.045	2216	2770	3300	0.018	0.045	2216	2770	2200	0.018	0.045	2216	2770
12.5 x 30	4700	0.016	0.041	2632	3290	3900	0.016	0.041	2632	3290	2700	0.016	0.041	2632	3290
12.5 x 35	5600	0.015	0.039	2720	3400	4700	0.015	0.039	2720	3400	3300	0.015	0.039	2720	3400
16.0 x 25	6800	0.016	0.043	2768	3460	5600	0.016	0.043	2768	3460	3900	0.016	0.043	2768	3460

V.DC / Item / φD x L	25V (1E)					35V (1V0)					50V (1H)				
	μF	Impedance (W, Max/100K Hz)		Ripple Current (MA/rms, 105℃)		μF	Impedance (W, Max/100K Hz)		Ripple Current (MA/rms, 105℃)		μF	Impedance (W,Max/100K Hz)		Ripple Current (MA/rms, 105℃)	
		20℃	-10℃	120Hz	100KHz		20℃	-10℃	120Hz	100KHz		20℃	-10℃	120Hz	100KHz
5 x 11	47	0.3	1.0	175	250	33	0.3	1.0	175	250	22	0.34	1.18	131	238
6.3 x 11	100	0.13	0.41	284	405	56	0.13	0.41	284	405	56	0.14	0.5	270	385
8 x 11.5	220	0.07	0.22	570	760	150	0.07	0.22	570	760	100	0.074	0.22	507	724
8 x 15	330	0.056	0.17	746	995	220	0.056	0.17	746	995	120	0.061	0.18	665	950
8 x 20	470	0.041	0.13	1000	1250	270	0.041	0.13	1000	1250	180	0.046	0.14	833	1190
10 x 12.5	330	0.53	0.16	773	1030	220	0.53	0.16	773	1030	150	0.061	0.18	685	979
10 x 16	470	0.038	0.12	1144	1430	330	0.038	0.12	1144	1430	220	0.042	0.12	959	1370
10 x 20	680	0.023	0.069	1456	1820	470	0.023	0.069	1456	1820	270	0.03	0.09	1106	1580
10 x 25	820	0.022	0.066	1720	2150	560	0.022	0.066	1720	2150	330	0.028	0.085	1309	1870
12.5 x 20	1000	0.021	0.053	1888	2360	680	0.021	0.053	1888	2360	470	0.027	0.068	1538	2050
12.5 x 25	1500	0.018	0.045	2216	2770	1000	0.018	0.045	2216	2770	560	0.023	0.059	1808	2410
12.5 x 30	1800	0.016	0.041	2632	3290	1200	0.016	0.041	2632	3290	680	0.021	0.052	2155	2860
12.5 x 35	2200	0.015	0.039	2720	3400	1500	0.015	0.039	2720	3400	820	0.019	0.051	2220	2960
16 x 25	2700	0.016	0.043	2768	3460	1800	0.016	0.043	2768	3460	1000	0.021	0.056	2258	3010