

ALUMINUM ELECTROLYTIC CAPACITORS

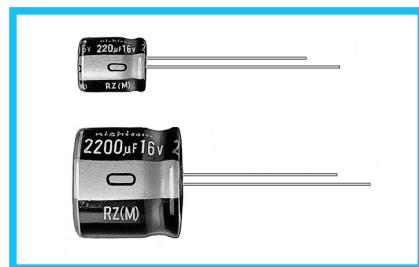
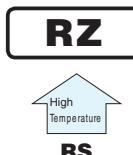
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Compact & Low-Profile Sized, Wide Temperature Range



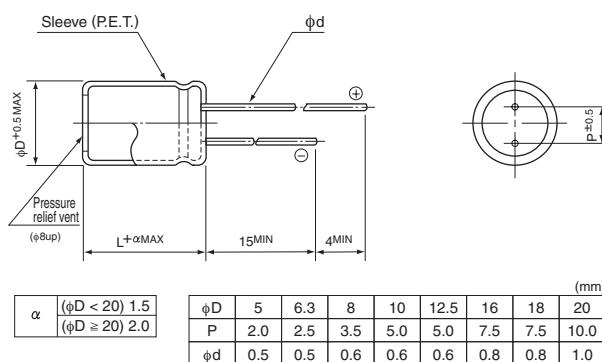
- Very small case sizes same as RS series, but operating over wide temperature range of -55 (-40) to +105°C.
- Compliant to the RoHS directive (2011/65/EU).



■ Specifications

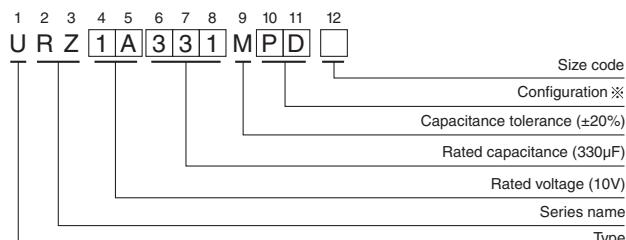
Item	Performance Characteristics																						
Category Temperature Range	-55 to +105°C (6.3 to 100V), -40 to +105°C (160 to 400V)																						
Rated Voltage Range	6.3 to 400V																						
Rated Capacitance Range	0.1 to 10000μF																						
Capacitance Tolerance	±20% at 120Hz, 20°C																						
Leakage Current	Rated voltage (V)	6.3 to 100						160 to 400															
		After 1 minute's application of rated voltage at 20°C, leakage current is not more than 0.03CV or 4 (μA), whichever is greater. After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.01CV or 3 (μA), whichever is greater.						After 1 minute's application of rated voltage at 20°C, I = 0.04CV+100 (μA) or less															
Tangent of loss angle (tan δ)	For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF. Measurement frequency : 120Hz at 20°C																						
	Rated voltage (V)	6.3	10	16	25	35	50	63	100	160	200	250	400										
	tan δ (MAX.)	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.08	0.20	0.20	0.25										
Stability at Low Temperature	Measurement frequency : 120Hz																						
	Rated voltage (V)	6.3	10	16	25	35	50	63	100	160	200	250	400										
	Impedance ratio Z-25°C / Z+20°C	5	4	3	2	2	2	2	2	3	3	3	6										
	ZT / Z20 (MAX.)	10	8	6	4	3	3	3	3	4	4	6	10										
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.																						
	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 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 white color letter on black sleeve.																						

■ Radial Lead Type



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

Type numbering system (Example : 10V 330μF)



※ Configuration

φ D	Pb-free leadwire Pb-free PET sleeve
5 - 6.3	DD
8 - 10	PD
12.5 to 18	HD
20	RD

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

● Dimension table in next page.

CAT.8100D

ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

RZ series

■ Dimensions

Cap.(μ F) \ V	6.3	10	16	25	35	50
Code	0J	1A	1C	1E	1V	1H
0.1	0R1					5 × 9 1.1
0.22	R22					5 × 9 2.3
0.33	R33					5 × 9 3.5
0.47	R47					5 × 9 5
1	010					5 × 9 12
2.2	2R2					5 × 9 18
3.3	3R3					5 × 9 25
4.7	4R7			5 × 9 30	5 × 9 25	5 × 9 30
10	100		5 × 9 40	5 × 9 30	5 × 9 35	5 × 9 40
22	220	5 × 9 25	5 × 9 40	5 × 9 30	5 × 9 35	5 × 9 40
33	330	5 × 9 40	5 × 9 55	5 × 9 60	5 × 9 70	5 × 9 75
47	470	5 × 9 55	5 × 9 65	5 × 9 70	5 × 9 80	6.3 × 9 95
100	101	5 × 9 90	5 × 9 95	6.3 × 9 115	6.3 × 9 130	8 × 9 155
220	221	6.3 × 9 145	6.3 × 9 155	8 × 9 205	10 × 9 220	10 × 9 235
330	331	6.3 × 9 180	8 × 9 210	10 × 9 240	10 × 9 270	10 × 12.5 340
470	471	8 × 9 235	8 × 9 275	10 × 9 290	10 × 12.5 370	12.5 × 12.5 420
1000	102	10 × 9 370	10 × 12.5 450	12.5 × 12.5 520	12.5 × 15 590	16 × 15 720
2200	222	12.5 × 15 635	12.5 × 15 690	16 × 15 830	18 × 15 970	18 × 20 1110
3300	332	16 × 15 860	16 × 15 940	18 × 15 1050	18 × 20 1220	20 × 25 1430
4700	472	16 × 15 1010	18 × 15 1120	18 × 20 1260	18 × 25 1470	
6800	682	18 × 15 1200	18 × 20 1330	18 × 25 1560		
10000	103	18 × 20 1450	18 × 25 1700			Case size Φ D × L (mm)
						Rated ripple

Cap.(μ F) \ V	63	100	160	200	250	400
Code	1J	2A	2C	2D	2E	2G
0.1	0R1		5 × 9 1.2			
0.22	R22		5 × 9 3			
0.33	R33		5 × 9 4.5			
0.47	R47		5 × 9 6.5			
1	010		5 × 9 12			
2.2	2R2		5 × 9 17			
3.3	3R3		5 × 9 25			
4.7	4R7		6.3 × 9 32			
10	100	5 × 9 42	6.3 × 9 50			16 × 15 100
22	220	6.3 × 9 71	8 × 9 93		16 × 15 200	• 18 × 15 200
33	330	8 × 9 100	10 × 9 130		16 × 15 250	• 18 × 15 250
47	470	8 × 9 120	10 × 12.5 165	16 × 15 300	• 18 × 15 300	Δ 18 × 20 300
68	680			• 18 × 15 350	Δ 18 × 20 350	★ 18 × 25 300
100	101	10 × 9 215	12.5 × 15 265	Δ 18 × 20 420	★ 18 × 25 420	18 × 25 420
150	151			★ 18 × 25 510	18 × 25 510	
220	221	12.5 × 12.5 335	16 × 15 440	20 × 25 550		
330	331	12.5 × 15 510	18 × 15 540			
470	471	16 × 15 640				Case size Φ D × L (mm)
						Rated ripple

Rated ripple current (mAmps) at 105°C 120Hz

Size φ 16 × 20 is available for capacitors marked "●"
Size φ 20 × 15 is available for capacitors marked "△"
Size φ 20 × 20 is available for capacitors marked "★"

In this case, [6] will be put at 12th digit of type numbering system.

● Frequency coefficient of rated ripple current

V	Cap.(μ F)	Frequency	50Hz	120Hz	300Hz	1 kHz	10 kHz or more
6.3 to 100	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 10000	0.85	1.00	1.10	1.13	1.15	
160 to 400	10 to 220	0.80	1.00	1.25	1.40	1.60	

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