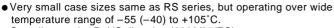
ALUMINUM ELECTROLYTIC CAPACITORS

Compact & Low-Profile Sized, Wide Temperature Range

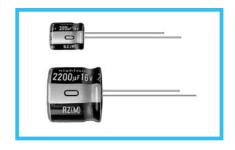








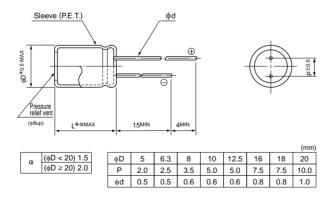




■Specifications

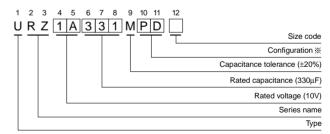
Item	Performance Characteristics																	
Category Temperature Range	-55 to +105°C (6.	$-55 \text{ to } +105^{\circ}\text{C} \text{ (6.3 to } 100\text{V)}, -40 \text{ to } +105^{\circ}\text{C} \text{ (160 to } 400\text{V)}$																
Rated Voltage Range	6.3 to 400V																	
Rated Capacitance Range	0.1 to 10000μF																	
Capacitance Tolerance	±20% at 120Hz, 20°C																	
	Rated voltage (V)			6.3	3 to 100								16	0 to 4	400			
Leakage Current	After 1 minute's application of rated voltage, leakage current is not more than 0.03CV or 4 (μ A), whichever is greater. After 2 minutes' application of rated voltage, leakage current is not more than 0.01CV or 3 (μ A), whichever is greater. After 1 minute's application of rated voltage, I = 0.04CV+100 (μ A) or less																	
	For capacitance of more than 1000µF, add 0.02 for every increase of 1000µF. Measurement frequency: 120Hz, Temperature: 20°C																	
Tangent of loss angle (tan δ)	Rated voltage (V) tan δ (MAX.)	6.3 0.28	10 0.24	16 0.20	25 0.16	35 0.14		50 0.12	63 0.10	0.08	_	160 0.20	0.	20	250 0.20	0.2		
	Measurement frequency : 120Hz																	
	Rated voltage (V)			6.3	10	16	25	35	50	63	1		160	200			00	
Stability at Low Temperature	Impedance ratio ZT / Z20 (MAX.)	Z-25°C		5	4 8	3 6	2	3	3	3	_	2	3	3			0	
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 ca														t base	d on J	IS C 51	01-4
Marking	Printed with white	color lette	er on bla	ck sleev	/e.													

■Radial Lead Type



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

Type numbering system (Example : 10V 330µF)



 Configuration Pb-free leadwire Pb-free PET sleeve φD 5 · 6.3 DD 8 · 10 PD 12.5 to 18 HD RD 20

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

 RZ_{series}

■Dimensions

V 6.3		10		16		25		35		50			
Cap.(µF)	Code	0J		1A		1C		1E		1V		1H	
0.1	0R1											5×9	1.1
0.22	R22						İ		1		İ	5×9	2.3
0.33	R33										1	5×9	3.5
0.47	R47											5×9	5
1	010										l	5×9	12
2.2	2R2								i		i	5×9	18
3.3	3R3											5×9	25
4.7	4R7							5×9	20	5×9	25	5×9	30
10	100				!	5×9	30	5×9	35	5×9	40	5×9	46
22	220	5×9	25	5×9	40	5×9	50	5×9	55	5×9	60	5×9	65
33	330	5×9	40	5×9	55	5×9	60	5×9	70	5×9	75	6.3×9	85
47	470	5×9	55	5×9	65	5×9	70	5×9	80	6.3×9	95	6.3×9	100
100	101	5×9	90	5×9	95	6.3×9	115	6.3×9	130	8×9	155	10×9	170
220	221	6.3×9	145	6.3×9	155	8×9	205	10×9	220	10×9	235	10×12.5	290
330	331	6.3×9	180	8×9	210	10×9	240	10×9	270	10×12.5	340	12.5×12.5	370
470	471	8×9	235	8×9	275	10×9	290	10×12.5	370	12.5×12.5	420	16×15	540
1000	102	10×9	370	10×12.5	450	12.5 × 12.5	520	12.5×15	590	16×15	720	18×20	830
2200	222	12.5×15	635	12.5×15	690	16×15	830	18×15	970	18×20	1110	20×25	1250
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					Case size	Rated
10000	103	18×20	1450	18×25	1700							φD×L (mm)	ripple

	V	63		100	100			200		250		400	
Cap.(µF)	Code	1J		2A		2C		2D		2E		2G	
0.1	0R1			5×9	1.2				-				
0.22	R22			5×9	3		-		i				
0.33	R33			5×9	4.5								
0.47	R47			5×9	6.5								1
1	010			5×9	12								
2.2	2R2			5×9	17		-						T
3.3	3R3		!	5×9	25		!		!		-		1
4.7	4R7			6.3×9	32				-				i
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	18×20	250
47	470	8×9	120	10×12.5	165	16×15	300	●18×15	300	Δ18×20	300	★18×25	300
68	680		-			●18×15	350	Δ18×20	350	18×20	350	20×25	350
100	101	10×9	215	12.5×15	265	Δ 18×20	420	★18×25	420	18×25	420		1
150	151		-			★18×25	510	18×25	510				1
220	221	12.5× 12.5	335	16×15	440	20×25	550		1				1
330	331	12.5×15	510	18×15	540		}		-		!	Case size	Rated
470	471	16×15	640				i					$\phi D \times L \text{ (mm)}$	ripple

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

• Frequency coefficient of rated ripple current

V	Cap.(µF)	50Hz	120Hz	300Hz	1 kHz	10kHz or more
	0.1 to 47	0.75	1.00	1.35	1.57	2.00
6.3 to 100	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

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

Size ϕ 16 \times 20 is available for capacitors marked " \bullet " Size ϕ 20 \times 15 is available for capacitors marked " Δ " Size ϕ 20 \times 20 is available for capacitors marked " \star "