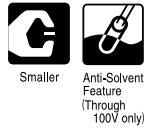


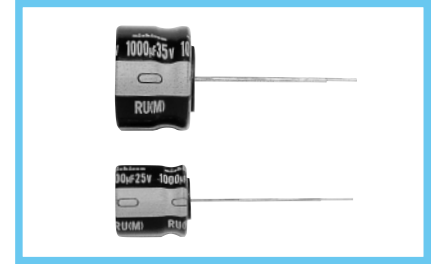
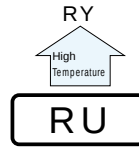
ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

RU 12.5mmL
series



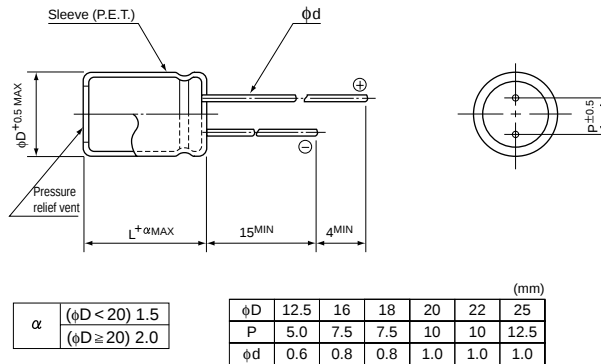
- 12.5mmL height.
- Adapted to the RoHS directive (2002/95/EC).



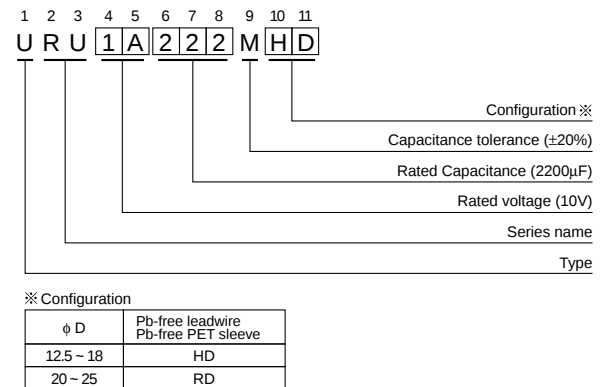
Specifications

Item	Performance Characteristics											
Category Temperature Range	-40 ~ +85°C (6.3V ~ 400V), -25 ~ +85°C (450V)											
Rated Voltage Range	6.3 ~ 450V											
Rated Capacitance Range	6.8 ~ 6800μF											
Capacitance Tolerance	±20% at 120Hz, 20°C											
Leakage Current	Rated voltage (V)	6.3 ~ 100V					160 ~ 450V					
	_____	After 1 minute's application of rated voltage, leakage current is not more than 0.03CV or 4 (μA), whichever is greater.					After 1 minute's application of rated voltage, I = 0.04CV+100 (μA) or less					
tan δ	For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF.						Measurement frequency : 120Hz, Temperature : 20°C					
	Rated voltage (V)	6.3	10	16	25	35	50	63	100	160 ~ 350	400 ~ 450	
	tan δ (MAX.)	0.28	0.24	0.20	0.16	0.14	0.12	0.12	0.12	0.20	0.25	
Stability at Low Temperature	Measurement frequency : 120Hz											
	Rated voltage (V)		6.3	10	16	25	35	50~100	160~200	250~350	400	450
	Impedance ratio	Z-25°C / Z+20°C	5	4	3	2	2	2	3	4	6	15
	ZT / Z20 (MAX.)	Z-40°C / Z+20°C	12	10	8	5	4	3	4	8	10	—
Endurance	After 2000 hours' application of rated voltage at 85°C, capacitors meet the characteristic requirements listed at right.				Capacitance change		Within ±20% of initial value					
					tan δ		200% or less of initial specified value					
					Leakage current		Initial specified value or less					
Shelf Life	After storing the capacitors under no load at 85°C for 1000 hours, and after performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they will meet the specified value for endurance characteristics listed above.											
Marking	Printed with white color letter on black sleeve.											

Radial Lead Type



Type numbering system (Example : 10V 2200µF)



- Please refer to page 21 about the end seal configuration.

Please refer to page 21, 22, 23 about the formed or taped product spec.
Please refer to page 3 for the minimum order quantity.

• Dimension table in next page.

CAT.8100V

ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

RU series

■ Dimensions

V		6.3	10	16	25	35	50
Cap.(μF)	Code	0J	1A	1C	1E	1V	1H
330	331						12.5×12.5 530
470	471						16×12.5 600
680	681					12.5×12.5 720	20×12.5 750
1000	102				12.5×12.5 750	18×12.5 850	25×12.5 930
2200	222		12.5×12.5 870	20×12.5 1200	25×12.5 1380		
3300	332	16×12.5 800	18×12.5 1100	25×12.5 1410			
4700	472	20×12.5 1460	25×12.5 1480				
6800	682	25×12.5 1600					Case size φ D×L (mm) Rated ripple

V		63	100	160	200	250	315
Cap.(μF)	Code	1J	2A	2C	2D	2E	2F
22	220				12.5×12.5 190	16×12.5 190	16×12.5 190
33	330			12.5×12.5 230	16×12.5 230	18×12.5 230	20×12.5 230
47	470			16×12.5 280	18×12.5 280	20×12.5 280	25×12.5 280
68	680			18×12.5 330	22×12.5 330	25×12.5 330	
100	101		12.5×12.5 330	22×12.5 380	25×12.5 380		
220	221	12.5×12.5 490	22×12.5 620				
330	331	18×12.5 710	25×12.5 760				
470	471	22×12.5 900					
680	681	25×12.5 1200					

V		350	400	450
Cap.(μF)	Code	2V	2G	2W
6.8	6R8			12.5×12.5 70
10	100	12.5×12.5 110	16×12.5 110	16×12.5 80
22	220	18×12.5 230	20×12.5 230	22×12.5 160
33	330	20×12.5 230	25×12.5 280	
47	470	25×12.5 280		

Rated Ripple (mA rms) at 85°C 120Hz

● Frequency coefficient of rated ripple current

V	Cap.(μF)	Frequency	50Hz	120Hz	300Hz	1 kHz	10 kHz ~
6.3 ~ 100	100 ~ 680		0.80	1.00	1.23	1.34	1.50
	1000 ~ 6800		0.85	1.00	1.10	1.13	1.15
160 ~ 450	6.8 ~ 100		0.80	1.00	1.25	1.40	1.60