

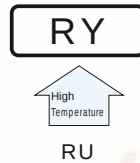
ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

RY 12.5mmL Wide Temperature Range series



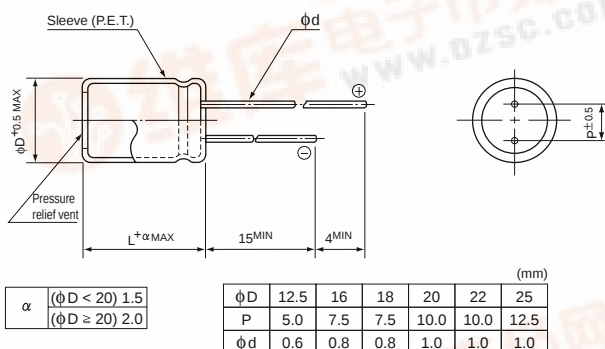
- 12.5mmL height.
- Adapted to the RoHS directive (2002/95/EC).



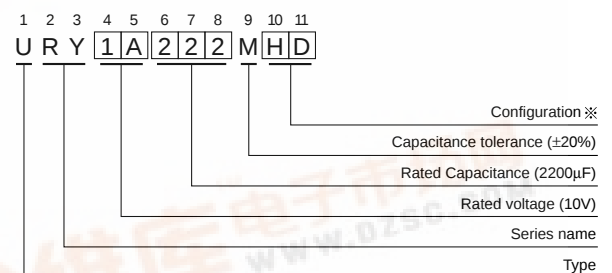
■ Specifications

Item	Performance Characteristics											
Category Temperature Range	-55 ~ +105°C (6.3 ~ 100V), -40 ~ +105°C (160 ~ 400V), -25 ~ +105°C (450V)											
Rated Voltage Range	6.3 ~ 450V											
Rated Capacitance Range	6.8 ~ 4700μF											
Capacitance Tolerance	±20% at 120Hz, 20°C											
Leakage Current	Rated voltage (V)	6.3 ~ 100					160 ~ 450					
	_____	After 1 minute's application of rated voltage, leakage current is not more than 0.03CV or 4 (μA), whichever is greater. After 2 minutes' application of rated voltage, leakage current is not more than 0.01CV or 3 (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	0.10	0.08	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	250~350	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	10	8	6	4	3	3	4	8	10	—
Endurance	After 2000 hours' application of rated voltage at 105°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 105°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)



※ Configuration

φ D	Pb-free leadwire Pb-free PET sleeve
12.5 ~ 18	HD
20 ~ 25	RD

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

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■Dimensions

V		6.3		10		16		25		35		50	
Cap.(μF)	Code	0J		1A		1C		1E		1V		1H	
330	331											12.5×12.5	450
470	471									12.5×12.5	420	20×12.5	540
680	681							12.5×12.5	500	18×12.5	610	25×12.5	700
1000	102					12.5×12.5	520	18×12.5	770	22×12.5	810		
2200	222	12.5×12.5	580	18×12.5	820	25×12.5	1000	25×12.5	1170				
3300	332	18×12.5	730	22×12.5	1030							Case size φ D×L (mm)	Rated ripple
4700	472	25×12.5	1200										

V		63		100		160		200		250		315	
Cap.(μF)	Code	1J		2A		2C		2D		2E		2F	
10	100											12.5×12.5	70
22	220							12.5×12.5	110	16×12.5	130	16×12.5	85
33	330					12.5×12.5	130	16×12.5	170	18×12.5	170	20×12.5	120
47	470					16×12.5	210	18×12.5	230	22×12.5	190	25×12.5	160
68	680					20×12.5	280	25×12.5	310				
100	101			12.5×12.5	230	25×12.5	360						
220	221	12.5×12.5	400	22×12.5	400								
330	331	18×12.5	550										
470	471	22×12.5	610										

V		350		400		450	
Cap.(μF)	Code	2V		2G		2W	
6.8	6R8					12.5×12.5	38
10	100	16×12.5	75	16×12.5	65	16×12.5	47
22	220	18×12.5	90	20×12.5	150	25×12.5	85
33	330	25×12.5	140	25×12.5	200		

Rated Ripple (mArms) at 105°C 120Hz

●Frequency coefficient of rated ripple current

V	Cap.(μF)	Frequency	50Hz	120Hz	300Hz	1 kHz	10 kHz ~
6.3 ~ 100	100 ~ 680	100 ~ 680	0.80	1.00	1.23	1.34	1.50
		1000 ~ 4700	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