

Compact & Low-Profile Sized, Wide Temperature Range

• Wide temperature range and same size as URS.

• Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).







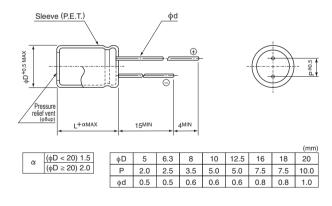
URZ



## ■Specifications

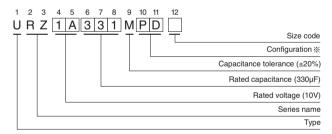
Item	Performance Characteristics																
Category Temperature Range	-55 to +105°C (6.3 to 100V), -40 to +105°C (160 to 400V)																
Rated Voltage Range	6.3 to 400V																
Rated Capacitance Range	1 to 10000μF																
Capacitance Tolerance	±20% at 120Hz, 2	:0°C															
	Rated voltage (V) 6.3 to 100									160 to 400							
Leakage Current	After 1 minute's application of rated voltage at 20°C, leakage current is not more than 0.03CV or 4 ( $\mu$ A), whichever is greater.  After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.01CV or 3 ( $\mu$ A), whichever is greater.  After 1 minute's application of rated voltage at 20°C, leakage current is not more than 0.01CV or 3 ( $\mu$ A), whichever is greater.								ge at 20°0	Ο,							
Tangent of loss angle (tan $\delta$ )	0)						y : 120H 250 0.20	400 0.25	C								
	Measurement frequency : 120Hz																
Stability at Low Temperature	Rated vo	Itage (V)	/ 7 00° 0	6.3	10	16	25	35	50			00	160	200			-
, , , p ,	Impedance ratio (MAX.)	Z-40°C		10	8	6	4	3	3	3		3	3	3 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 Pb-free leadwire Pb-free PET sleeve φD 5 · 6.3 DD PD 8 · 10 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.

# **URZ**

### **■**Dimensions

V		6.3		10		16		25		35		50	
Cap.(µF)	Code	0J		1A		1C		1E		1V		1H	
2.2	2R2											5×9	18
3.3	3R3		i		į				į		i	5×9	25
4.7	4R7		İ		İ		i	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				I
6800	682	18 × 15	1200	18 × 20	1330	18 × 25	1560		!			Case size	Rated
10000	103	18 × 20	1450	18 × 25	1700		i		į		İ	φD×L (mm)	ripple

V		63		100		160		200		250		400	
Cap.(µF)	p.(μF) Code 1J			2A		2C		2D		2E		2G	
1	010			5×9	12								
2.2	2R2		i	5×9	17				i		i		
3.3	3R3		I I	5×9	25		1		I I		1		1
4.7	4R7			6.3 × 9	32								
10	100	5×9	42	6.3 × 9	50				i		i	16×15	100
22	220	6.3 × 9	<sup>2</sup> 71	8×9	¦ 93		1		1	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		i i		İ	● 18 × 15	350	Δ18×20	350	18 × 20	350	20 × 25	350
100	101	10 × 9	215	12.5 × 15	265	Δ18×20	420	★18 × 25	420	18 × 25	420		
150	151		i		i	★18×25	510	18 × 25	510		i		i
220	221	12.5 × 12.5	335	16 × 15	440	20 × 25	550		I I		İ		İ
330	331	12.5 × 15	510	18 × 15	540		!		!		!	Case size	Rated
470	471	16 × 15	640				i		1		1	φD×L (mm)	ripple

Rated ripple current (mArms) at 105  $^{\circ}\text{C}$  120Hz

## • Frequency coefficient of rated ripple current

V	Cap.(µF)	50Hz	120Hz	300Hz	1 kHz	10kHz or more
	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

Size  $\phi$ 16 × 20 is available for capacitors marked "  $\bullet$  " Size  $\phi$ 20 × 15 is available for capacitors marked "  $\Delta$  "  $\Delta$ "  $\star$  "  $\star$  "  $\star$ "

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