

**URS**

Compact &amp; Low-profile Sized



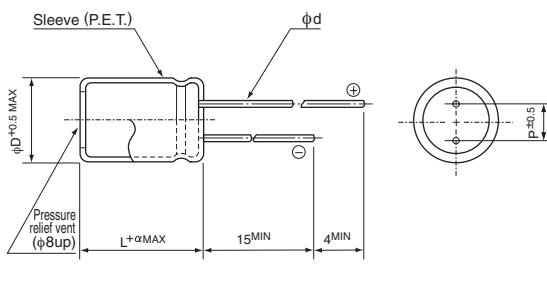
- Compact & low profile case size.
- Compliant to the RoHS directive (2011/65/EU).

**■ Specifications**

Item	Performance Characteristics																
Category Temperature Range	-40 to +85°C																
Rated Voltage Range	6.3 to 400V																
Rated Capacitance Range	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	0.02	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.)	Z-40°C / Z+20°C	12	10	8	5	4	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 2000 hours at 85°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 85°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**

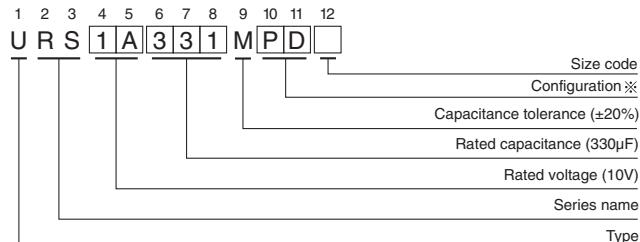
Type numbering system (Example : 10V 330μF)



(mm)							
φD	5	6.3	8	10	12.5	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
φd	0.5	0.5	0.6	0.6	0.6	0.8	1.0

α	(φD<20) 1.5
	(φD≥20) 2.0

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



## ※ 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.

## URS

## ■Dimensions

Cap.( $\mu$ F)	V	6.3	10	16	25	35	50	
	Code	0J	1A	1C	1E	1V	1H	
2.2	2R2							5 × 9      26
3.3	3R3							5 × 9      35
4.7	4R7				5 × 9      30	5 × 9      35	5 × 9      40	
10	100			5 × 9      40	5 × 9      50	5 × 9      55	5 × 9      65	
22	220	5 × 9      35	5 × 9      55	5 × 9      70	5 × 9      75	5 × 9      95	5 × 9      90	
33	330	5 × 9      55	5 × 9      75	5 × 9      85	5 × 9      95	5 × 9      100	6.3 × 9      120	
47	470	5 × 9      75	5 × 9      90	5 × 9      100	5 × 9      110	6.3 × 9      130	6.3 × 9      140	
100	101	5 × 9      125	5 × 9      135	6.3 × 9      160	6.3 × 9      180	8 × 9      220	10 × 9      240	
220	221	6.3 × 9      200	6.3 × 9      220	8 × 9      290	10 × 9      310	10 × 9      340	10 × 12.5      420	
330	331	6.3 × 9      250	8 × 9      300	10 × 9      360	10 × 9      380	10 × 12.5      480	12.5 × 12.5      530	
470	471	8 × 9      330	8 × 9      360	10 × 9      410	10 × 12.5      530	12.5 × 12.5      590	16 × 15      750	
1000	102	10 × 9      510	10 × 12.5      620	12.5 × 12.5      720	12.5 × 15      830	16 × 15      1010	18 × 20      1160	
2200	222	12.5 × 15      890	12.5 × 15      960	16 × 15      1160	18 × 15      1360	18 × 20      1560	20 × 25      1750	
3300	332	16 × 15      1200	16 × 15      1300	18 × 15      1460	18 × 20      1720	20 × 25      2000		
4700	472	16 × 15      1410	18 × 15      1550	18 × 20      1770	18 × 25      2050			
6800	682	18 × 15      1660	18 × 20      1850	18 × 25      2170				
10000	103	18 × 20      2020	18 × 25      2350					Case size Φ D × L (mm)      Rated ripple

Cap.( $\mu$ F)	V	63	100	160	200	250	400	
	Code	1J	2A	2C	2D	2E	2G	
1	010		5 × 9      17					
2.2	2R2		5 × 9      26					
3.3	3R3		5 × 9      35					
4.7	4R7		6.3 × 9      45					
10	100	5 × 9      60	6.3 × 9      70					16 × 15      140
22	220	6.3 × 9      100	8 × 9      130				16 × 15      280	• 18 × 15      280
33	330	8 × 9      140	10 × 9      180			16 × 15      350	• 18 × 15      350	18 × 20      350
47	470	8 × 9      170	10 × 12.5      230	16 × 15      420	• 18 × 15      420	Δ 18 × 20      420	★ 18 × 25      420	
68	680			• 18 × 15      490	Δ 18 × 20      490	18 × 20      490	20 × 25      490	
100	101	10 × 9      250	12.5 × 15      370	Δ 18 × 20      590	★ 18 × 25      590	18 × 25      590		
150	151			★ 18 × 25      710	18 × 25      710			
220	221	12.5 × 12.5      490	16 × 15      620	20 × 25      770				
330	331	12.5 × 15      710	18 × 15      760					
470	471	16 × 15      900						Case size Φ D × L (mm)      Rated ripple

Rated ripple current (mA rms) at 85°C 120Hz

Size  $\phi 16 \times 20$  is available for capacitors marked "●"  
 Size  $\phi 20 \times 15$  is available for capacitors marked "Δ"  
 Size  $\phi 20 \times 20$  is available for capacitors marked "★"

In this case, [5] will be put at 12th digit of  
 type numbering system.

## ● Frequency coefficient of rated ripple current

V	Cap.( $\mu$ F)	Frequency	50Hz	120Hz	300Hz	1 kHz	10 kHz or more
6.3 to 100	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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