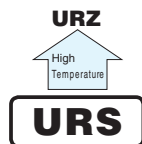


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Compact & Low-profile Sized

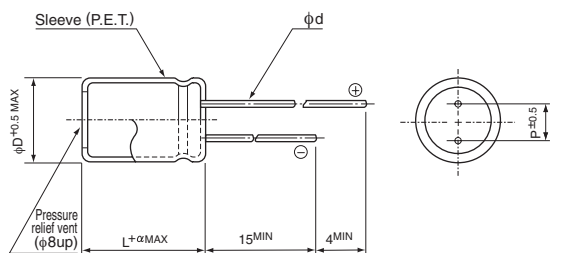


- Compact & low profile case size.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).

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	0.20	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 (MAX.)	Z-25°C / Z+20°C	5	4	3	2	2	2	2	2	3	3	3	6
Z-40°C / Z+20°C		12	10	8	5	4	3	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

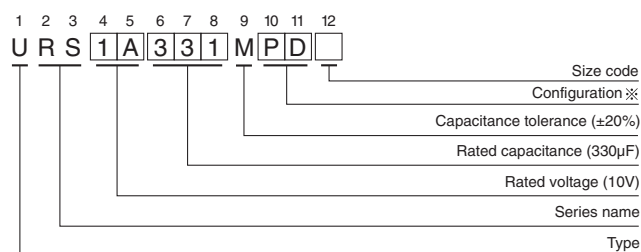


	φD	5	6.3	8	10	12.5	16	18	20
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10.0	
φd	0.5	0.5	0.6	0.6	0.6	0.8	0.8	1.0	

α	(φD < 20) 1.5
	(φD ≥ 20) 2.0

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

Type numbering system (Example : 10V 330μF)



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.

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■ Dimensions

V		6.3		10		16		25		35		50	
Cap.(μF)	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					Case size φ D × L (mm)	Rated ripple
10000	103	18 × 20	2020	18 × 25	2350								

V		63		100		160		200		250		400	
Cap.(μF)	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	△ 18 × 20	420	★ 18 × 25	420
68	680					● 18 × 15	490	△ 18 × 20	490	18 × 20	490	20 × 25	490
100	101	10 × 9	250	12.5 × 15	370	△ 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							Case size φ D × L (mm)	Rated ripple
470	471	16 × 15	900										

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

Size φ 16 × 20 is available for capacitors marked "●"
 Size φ 20 × 15 is available for capacitors marked "△"
 Size φ 20 × 20 is available for capacitors marked "★"

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

● Frequency coefficient of rated ripple current

V	Cap.(μF)	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
			0.80	1.00	1.23	1.34	1.50
			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