

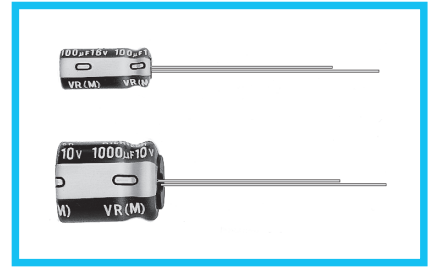
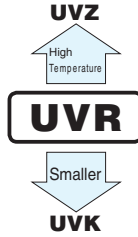
UVR

Miniature Sized



Anti-Solvent
Feature
(Through
100V only)

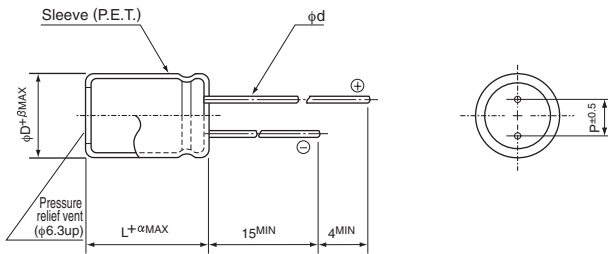
- Standard series for entertainment electronics.
- Compliant to the RoHS directive (2011/65/EU, (EU)2015/863).



Specifications

Item	Performance Characteristics																																																																												
Category Temperature Range	-40 to +85°C (6.3V to 400V), -25 to +85°C (450V)																																																																												
Rated Voltage Range	6.3 to 450V																																																																												
Rated Capacitance Range	0.47 to 33000µF																																																																												
Capacitance Tolerance	±20% at 120Hz, 20°C																																																																												
Leakage Current	<table border="1"> <thead> <tr> <th>Rated voltage (V)</th> <th>6.3 to 100V</th> <th>160 to 450V</th> </tr> </thead> <tbody> <tr> <td>_____</td> <td>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.</td> <td>After 1 minute's application of rated voltage at 20°C, CV ≤ 1000 : I = 0.1CV+40µA or less After 1 minute's application of rated voltage at 20°C, CV > 1000 : I = 0.04CV+100 (µA) or less</td> </tr> </tbody> </table>	Rated voltage (V)	6.3 to 100V	160 to 450V	_____	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, CV ≤ 1000 : I = 0.1CV+40µA or less After 1 minute's application of rated voltage at 20°C, CV > 1000 : I = 0.04CV+100 (µA) or less																																																																						
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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 <table border="1"> <thead> <tr> <th>Rated voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> <th>160 to 315</th> <th>350 to 450</th> </tr> </thead> <tbody> <tr> <td>tan δ (MAX.)</td> <td>0.28</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.08</td> <td>0.20</td> <td>0.25</td> </tr> </tbody> </table>	Rated voltage (V)	6.3	10	16	25	35	50	63	100	160 to 315	350 to 450	tan δ (MAX.)	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.20	0.25																																																						
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	12	10	8	5	4	3	3	3	4	8	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.																																																																												
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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

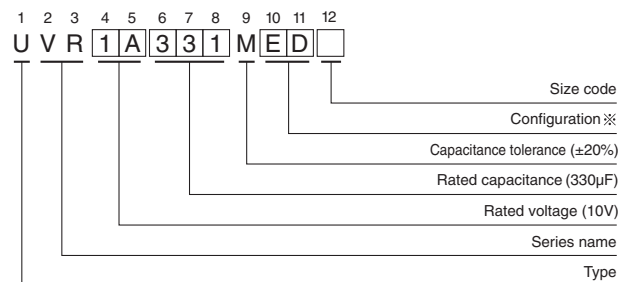


	4	5	6.3	8	10	12.5	16	18	20	22	25
φD (mm)	4	5	6.3	8	10	12.5	16	18	20	22	25
P (mm)	1.5	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10.0	10.0	12.5
φd (mm)	0.45	0.5	0.5	0.6	0.6	0.6	0.8	0.8	1.0	1.0	1.0
β (mm)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0

α	(L < 20)	1.5
	(L ≥ 20)	2.0

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

Type numbering system (Example : 10V 330µF)



※ Configuration

φ D	Pb-free leadwire Pb-free PET sleeve
4	DD6
5	DD
6.3	ED
8 - 10	PD
12.5 to 18	HD
20 to 25	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.



■ Dimensions

Cap.(μF)	V Code	6.3		10		16		25		35		50		63		100			
		0J		1A		1C		1E		1V		1H		1J		2A			
2.2	2R2											• 5 × 11	28				5 × 11	30	
3.3	3R3											• 5 × 11	35				5 × 11	40	
4.7	4R7							• 5 × 11	35	• 5 × 11	40	• 5 × 11	40				5 × 11	45	
10	100					• 5 × 11	50	• 5 × 11	55	• 5 × 11	60	• 5 × 11	60	5 × 11	65	6.3 × 11	75		
22	220	• 5 × 11	65	• 5 × 11	65	• 5 × 11	75	• 5 × 11	80	• 5 × 11	90	5 × 11	95	5 × 11	100	6.3 × 11	140	8 × 11.5	180
33	330	• 5 × 11	80	• 5 × 11	85	• 5 × 11	90	• 5 × 11	95	5 × 11	105	5 × 11	125	6.3 × 11	170	10 × 12.5	230		
47	470	• 5 × 11	95	• 5 × 11	100	• 5 × 11	110	• 5 × 11	115	5 × 11	130	6.3 × 11	155	6.3 × 11	170	10 × 12.5	230		
100	101	• 5 × 11	135	• 5 × 11	145	5 × 11	160	6.3 × 11	190	6.3 × 11	210	8 × 11.5	260	10 × 12.5	300	10 × 20	370		
220	221	5 × 11	200	6.3 × 11	240	6.3 × 11	260	8 × 11.5	330	10 × 12.5	385	10 × 12.5	430	10 × 16	490	12.5 × 25	620		
330	331	6.3 × 11	270	6.3 × 11	290	8 × 11.5	370	10 × 12.5	440	10 × 12.5	490	10 × 16	590	10 × 20	710	12.5 × 25	760		
470	471	6.3 × 11	320	6.3 × 11	350	8 × 11.5	440	10 × 12.5	550	10 × 16	650	12.5 × 20	760	12.5 × 20	900	16 × 25	1000		
1000	102	8 × 11.5	540	10 × 12.5	650	10 × 16	790	10 × 20	960	12.5 × 20	1150	12.5 × 25	1350	16 × 25	1300	18 × 40	1380		
2200	222	10 × 20	1000	10 × 20	1100	12.5 × 20	1300	12.5 × 25	1550	16 × 25	1800	16 × 35.5	2100	18 × 35.5	2300	22 × 50	2400		
3300	332	10 × 20	1190	12.5 × 20	1450	12.5 × 25	1700	16 × 25	1980	16 × 35.5	2280	18 × 35.5	2500	20 × 40	2700	25 × 50	2900		
4700	472	12.5 × 20	1550	12.5 × 25	1800	16 × 25	2100	16 × 31.5	2450	18 × 35.5	2700	20 × 40	2900	22 × 50	3400				
6800	682	12.5 × 25	1920	16 × 25	2250	16 × 35.5	2650	18 × 35.5	2900	20 × 40	3000	22 × 50	3300	25 × 50	3900				
10000	103	16 × 25	2350	16 × 35.5	2700	18 × 35.5	2950	20 × 40	3000	22 × 50	3700	25 × 50	4000						
15000	153	16 × 35.5	2850	18 × 35.5	3100	20 × 40	3400	22 × 50	3800	25 × 50	4300								
22000	223	18 × 40	3350	20 × 40	3700	22 × 50	4200	25 × 50	4500										
33000	333	22 × 50	3900	22 × 50	4500	25 × 50	4800												

Cap.(μF)	V Code	160		200		250		315		350		400		450	
		2C		2D		2E		2F		2V		2G		2W	
0.47	R47	6.3 × 11	15	6.3 × 11	15	6.3 × 11	15								
1	010	6.3 × 11	22	6.3 × 11	22	6.3 × 11	22	6.3 × 11	22	6.3 × 11	22	8 × 11.5	25	8 × 11.5	23
2.2	2R2	6.3 × 11	33	6.3 × 11	33	6.3 × 11	33	8 × 11.5	33	8 × 11.5	38	10 × 12.5	45	10 × 12.5	35
3.3	3R3	6.3 × 11	40	6.3 × 11	40	8 × 11.5	46	10 × 12.5	55	10 × 12.5	55	10 × 12.5	55	10 × 16	45
4.7	4R7	6.3 × 11	50	8 × 11.5	55	8 × 11.5	55	10 × 12.5	65	10 × 12.5	65	10 × 16	70	10 × 20	55
10	100	8 × 11.5	80	10 × 12.5	95	10 × 16	105	10 × 20	115	10 × 20	115	12.5 × 20	130	12.5 × 20	90
22	220	10 × 16	155	10 × 20	170	12.5 × 20	190	12.5 × 20	190	12.5 × 25	200	16 × 25	240	16 × 25	165
33	330	10 × 20	205	12.5 × 20	230	12.5 × 20	230	16 × 25	275	16 × 25	275	16 × 31.5	300	16 × 35.5	230
47	470	12.5 × 20	270	12.5 × 20	270	12.5 × 25	300	16 × 25	340	16 × 35.5	380	16 × 35.5	370	18 × 40	300
100	101	12.5 × 25	430	16 × 31.5	530	16 × 31.5	520	18 × 35.5	560	18 × 40	590	20 × 40	550	22 × 40	350
220	221	16 × 35.5	800	18 × 35.5	810	20 × 40	740	22 × 50	850	22 × 50	850	25 × 50	750		
330	331	18 × 40	940	20 × 40	1130	22 × 50	1170	25 × 50	1250						
470	471	22 × 40	1410	22 × 50	1490	25 × 50	1600								
1000	102	25 × 50	1900	25 × 50	1550										

Size 4×11 is available for capacitors marked **

Rated ripple current (mArms) at 85°C 120Hz

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	10kHz or more
6.3 to 100	2.2 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 33000	0.85	1.00	1.10	1.13	1.15
160 to 450	0.47 to 220	0.80	1.00	1.25	1.40	1.60
	330 to 1000	0.90	1.00	1.10	1.13	1.15

单击下面可查看定价，库存，交付和生命周期等信息

[>>Nichicon\(尼吉康\)](#)