

UVK

Miniature Sized

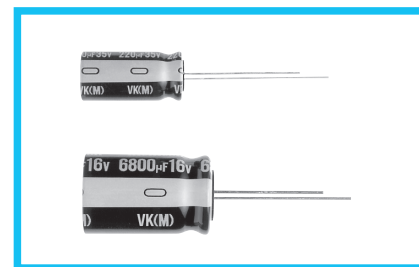
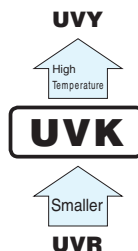


Smaller

Anti-Solvent
Feature
(Through
100V only)

- One rank smaller case sizes than UVR.
- Compliant to the RoHS directive (2011/65/EU).

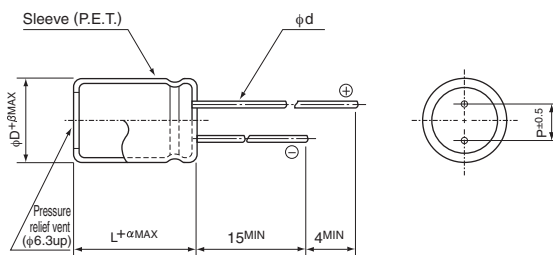
Values marked with an ※ in the dimension table are scheduled to be discontinued and are not recommended for new designs.



■ Specifications

Item	Performance Characteristics	
Category Temperature Range	-40 to +85°C (6.3V to 400V), -25°C to +85°C (450V)	
Rated Voltage Range	6.3 to 450V	
Rated Capacitance Range	0.1 to 68000µF	
Capacitance Tolerance	±20% at 120Hz, 20°C	
Leakage Current	Rated voltage (V)	6.3 to 100V
	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.	
Leakage Current	Rated voltage (V)	160 to 450V
	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	
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	
Stability at Low Temperature	Rated voltage (V)	6.3 10 16 25 35 50 63 100 160 to 250 350 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
Endurance	Rated voltage (V)	6.3 10 16 25 35 50 to 100 160 to 200 250 to 350 400 450
	Impedance ratio ZT / Z20 (MAX.)	5 4 3 2 2 2 3 4 6 15
Shelf Life	Rated voltage (V)	6.3 10 16 25 35 50 to 100 160 to 200 250 to 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
Marking	Printed with white color letter on black sleeve.	

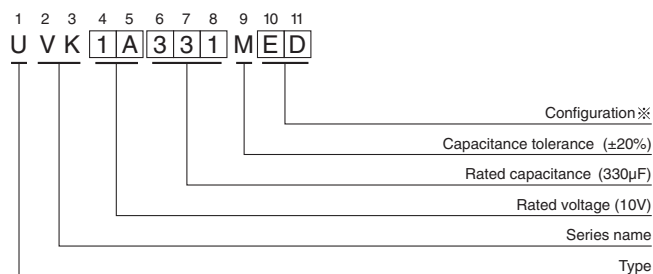
■ Radial Lead Type



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

Type numbering system (Example : 10V 330µF)



※ Configuration

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

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

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.

UVK

■ Dimensions

Cap.(μF)	V	Code	6.3	10	16	25	35	50	63
			0J	1A	1C	1E	1V	1H	1J
0.1	0R1							※5×11	1.3
0.22	R22							※5×11	2.9
0.33	R33							※5×11	4.3
0.47	R47							※5×11	6.2
1	010							※5×11	17
2.2	2R2							5×11	28
3.3	3R3							5×11	35
4.7	4R7							5×11	40
10	100							5×11	60
22	220							5×11	95
33	330							5×11	125
47	470						5×11	130	6.3×11
68	680						6.3×11	160	6.3×11
100	101					5×11	180	6.3×11	210
220	221		5×11	220	6.3×11	260	6.3×11	280	8×11.5
330	331		6.3×11	290	6.3×11	320	8×11.5	390	10×12.5
470	471		6.3×11	350	8×11.5	440	10×12.5	550	10×16
1000	102	8×11.5	540	10×12.5	650	10×12.5	700	10×16	860
2200	222	10×16	890	10×16	990	10×20	1000	12.5×25	1550
3300	332	10×20	1190	12.5×20	1450	12.5×25	1700	16×25	1980
4700	472	12.5×20	1550	12.5×25	1800	16×25	2100	16×25	2200
6800	682	12.5×25	1920	16×25	2250	16×25	2250	16×35.5	2600
10000	103	16×25	2350	16×31.5	2550	16×35.5	2710	18×40	2800
15000	153	16×31.5	2550	16×35.5	2880	18×40	3100	22×50	3800
22000	223	18×35.5	3200	18×40	3400	22×40	3800	25×50	4500
33000	333	20×40	3500	22×50	4500	25×50	4800		
47000	473	22×50	3900	25×50	5000				
68000	683	25×50	4300						

Case size
φD×L (mm) Rated
ripple

Cap.(μF)	V	Code	100	160	200	250	350	400	450
			2A	2C	2D	2E	2V	2G	2W
0.1	0R1	※5×11	2.1		※6.3×11	2.1			
0.22	R22	※5×11	4.7		※6.3×11	4.7			
0.33	R33	※5×11	7		※6.3×11	7			
0.47	R47	※5×11	10		6.3×11	15		6.3×11	12
1	010	※5×11	21		6.3×11	22		6.3×11	20
2.2	2R2	5×11	30		6.3×11	33	6.3×11	30	8×11.5
3.3	3R3	5×11	40		6.3×11	40	8×11.5	43	8×11.5
4.7	4R7	5×11	45		6.3×11	50	8×11.5	55	10×12.5
10	100	5×11	70	8×11.5	80	8×11.5	80	10×12.5	100
22	220	6.3×11	130	10×12.5	130	10×16	150	10×20	150
33	330	8×11.5	180	10×16	180	10×20	200	10×20	200
47	470	8×11.5	200	10×20	210	12.5×20	270	12.5×20	270
68	680	10×12.5	270	12.5×20	350	12.5×25	350	16×25	380
100	101	10×16	340	12.5×25	430	16×25	450	16×25	440
220	221	12.5×20	550	16×31.5	580	16×35.5	700	18×35.5	680
330	331	12.5×25	760	18×35.5	800	18×40	950	20×40	1000
470	471	16×25	1000	18×40	1200	22×40	1300	22×50	1400
1000	102	18×35.5	1350	25×50	1900				
2200	222	22×50	2400						
3300	332	25×50	2900						

Case size
φD×L (mm) Rated
ripple

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

● Frequency coefficient of rated ripple current

V	Cap.(μF)	Frequency	50Hz	120Hz	300Hz	1 kHz	10kHz or more
6.3 to 100	0.1 to 68		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 68000		0.85	1.00	1.10	1.13	1.15
160 to 450	0.1 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

Mouser Electronics

Authorized Distributor

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