

UVZ

Wide Temperature Range

Anti-Solvent
Feature
(Through 100V only)

- Small case sizes as same as UVR, but operating over wide temperature range of -55 to $+105^{\circ}\text{C}$.
- Compliant to the RoHS directive (2011/65/EU).

UPS
UPJHigh Ripple Current
High Reliability

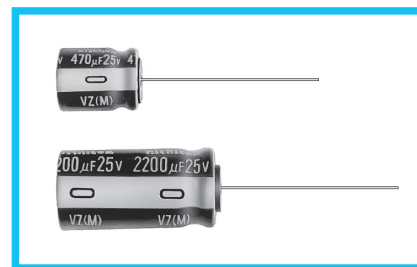
UVZ

Smaller

UVY

High Temperature

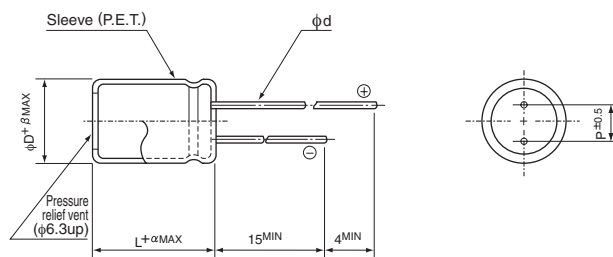
UVR



■ Specifications

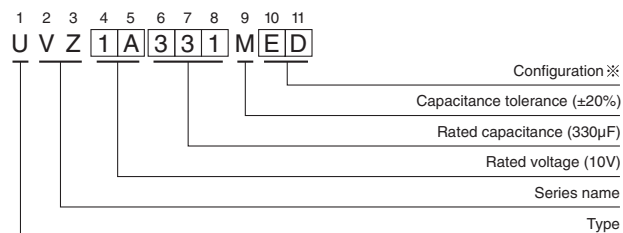
Item	Performance Characteristics													
Category Temperature Range	-55 to +105°C (6.3 to 100V) , -40 to +105°C (160 to 400V), -25 to +105°C (450V)													
Rated Voltage Range	6.3 to 450V													
Rated Capacitance Range	0.47 to 33000μF													
Capacitance Tolerance	±20% at 120Hz, 20°C													
Leakage Current	Rated voltage (V)	6.3 to 100						160 to 450						
	_____	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 1 minute's application of rated voltage at 20°C, CV ≤ 1000: I = 0.1CV+40 (μA) or less						
		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 = 0.04CV+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 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			
Stability at Low Temperature	Measurement frequency : 120Hz													
	Rated voltage (V)		6.3	10	16	25	35	50	63	100	160 to 200	250 to 350	400	450
	Impedance ratio ZT / Z20 (MAX.)	Z-25°C / Z+20°C	5	4	3	2	2	2	2	2	3	4	6	15
		Z-40°C / Z+20°C	10	8	6	4	3	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 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



	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	0.5	1.0	1.0

α	(L < 20) 1.5
	(L ≥ 20) 2.0

Type numbering system (Example : 10V 330 μF)

※ 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.

UVZ

■ Dimensions

V	6.3	10	16	25	35	50
Cap.(μF)	0J	1A	1C	1E	1V	1H
2.2	2R2					5 × 11
3.3	3R3					5 × 11
4.7	4R7			5 × 11	25	5 × 11
10	100		5 × 11	35	5 × 11	41
22	220	5 × 11	45	5 × 11	54	5 × 11
33	330	5 × 11	55	5 × 11	58	5 × 11
47	470	5 × 11	65	5 × 11	68	5 × 11
100	101	5 × 11	95	5 × 11	79	6.3 × 11
220	221	5 × 11	145	6.3 × 11	83	8 × 11.5
330	331	6.3 × 11	195	6.3 × 11	140	10 × 12.5
470	471	6.3 × 11	230	6.3 × 11	140	10 × 12.5
1000	102	8 × 11.5	390	10 × 12.5	140	10 × 16
2200	222	10 × 20	710	10 × 20	140	10 × 16
3300	332	10 × 20	840	12.5 × 20	140	10 × 16
4700	472	12.5 × 20	1090	12.5 × 20	140	10 × 16
6800	682	12.5 × 25	1350	16 × 25	140	10 × 16
10000	103	16 × 25	1650	16 × 35.5	140	10 × 16
15000	153	16 × 35.5	2010	18 × 35.5	140	10 × 16
22000	223	18 × 40	2350	20 × 40	140	10 × 16
33000	333	22 × 50	2800	22 × 50	140	10 × 16

V	63	100	160	200	250	315	350	400	450
Cap.(μF)	1J	2A	2C	2D	2E	2F	2V	2G	2W
0.47	R47		6.3 × 11	11	6.3 × 11	11	6.3 × 11	10	
1	010		6.3 × 11	16	6.3 × 11	16	6.3 × 11	15	
2.2	2R2	5 × 11	21	6.3 × 11	25	6.3 × 11	23	8 × 11.5	26
3.3	3R3	5 × 11	29	6.3 × 11	30	6.3 × 11	30	8 × 11.5	32
4.7	4R7	5 × 11	32	6.3 × 11	34	8 × 11.5	39	8 × 11.5	39
10	100	5 × 11	46	6.3 × 11	54	8 × 11.5	41	10 × 12.5	65
22	220	5 × 11	71	6.3 × 11	93	10 × 16	100	10 × 20	120
33	330	6.3 × 11	100	8 × 11.5	130	10 × 20	145	12.5 × 20	160
47	470	6.3 × 11	120	10 × 12.5	165	12.5 × 20	195	12.5 × 20	195
100	101	10 × 12.5	215	10 × 20	265	12.5 × 25	215	16 × 31.5	375
220	221	10 × 16	335	12.5 × 25	440	16 × 35.5	570	18 × 35.5	575
330	331	10 × 20	510	12.5 × 25	540	18 × 40	750	20 × 40	705
470	471	12.5 × 20	640	16 × 25	715	22 × 40	900	22 × 50	840
1000	102	16 × 25	930	18 × 40	985	25 × 50	1310		
2200	222	18 × 35.5	1650	22 × 50	1750				
3300	332	20 × 40	1950	25 × 50	2070				
4700	472	22 × 50	2450						
6800	682	25 × 50	2800						

Rated ripple current (mA rms) at 105°C 120Hz

● Frequency coefficient of rated ripple current

V	Frequency	50Hz	120Hz	300Hz	1 kHz	10 kHz 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

Mouser Electronics

Authorized Distributor

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