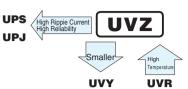


Wide Temperature Range

Anti-Solvent Feature (Through 100V only)

- Wide temperature range and same size as UVR.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).

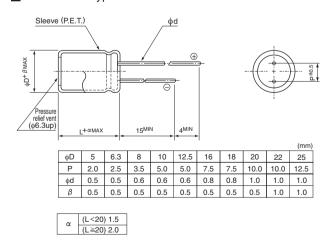




#### ■Specifications

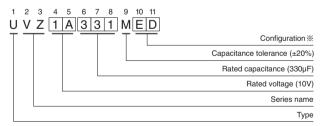
Item	Performance Characteristics														
Category Temperature Range	−55 to +105°C (6.3 to 100V) , −40 to +105°C (160 to 400V), −25 to +105°C (450V)														
Rated Voltage Range	6.3 to 450V														
Rated Capacitance Range	0.47 to 33000μF														
Capacitance Tolerance	±20% at 120Hz, 2	±20% at 120Hz, 20°C													
Leakage Current	Rated voltage (V)   6.3 to 100   160 to 450														
Tangent of loss angle (tan δ)	For capacitance of n Rated voltage (V) tan δ (MAX.)	1	μF, add 0.02 for every in 10 16 0.24 0.20			25 35 0.16 0.14			Mea 50 63 0.12 0.10		100 0.08	160 to 3	ency: 120Hz at 20°C 0 to 315   350 to 450 0.20   0.25		
	Rated vo		6.3	10	16	25	35	50	63	100		rement fre		: 120Hz 450	
Stability at Low Temperature	Impedance ratio (MAX.)	Z-25°C / Z+ Z-40°C / Z+		5 10	4 8	3	2	2	2	2	2	3 4	4 8	6 10	15 —
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									е					
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 o	n blac	k sleev	e.										

### ■Radial Lead Type



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

## Type numbering system (Example: 10V 330µF)



※ Configuration									
φD	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, 21, 22 about the formed or taped product spec. Please refer to page 4 for the minimum order quantity.

# UVZ

### **■**Dimensions

V		6.3		10		16		25		35		50	
Cap.(µF) Code		0J		1A		1C		1E		1V		1H	
2.2	2R2										-	5 × 11	20
3.3	3R3						1				1	5 × 11	25
4.7	4R7		İ		İ		1	5×11	25	5×11	28	5 × 11	30
10	100		-			5 × 11	35	5×11	36	5×11	41	5 × 11	46
22	220	5 × 11	45	5×11	45	5 × 11	54	5 × 11 58		5 × 11 61		5 × 11	68
33	330	5 × 11	55	5×11	5 × 11 58		65	5 × 11 68		5 × 11		5 × 11	90
47	470	5 × 11	65	5×11	68	5 × 11	79	5×11	83	5 × 11	93	6.3 × 11	115
100	101	5 × 11	95	5×11	105	5 × 11	115	6.3 × 11	140	6.3 × 11	150	8 × 11.5	190
220	221	5 × 11	145	6.3 × 11	175	6.3 × 11	190	8 × 11.5	240	10 × 12.5	275	10 × 12.5	300
330	331	6.3 × 11	195	6.3 × 11	210	8 × 11.5	265	10 × 12.5	315	10 × 12.5	350	10 × 16	410
470	471	6.3 × 11	230	6.3 × 11	250	8 × 11.5	315	10 × 12.5	380	10 × 16	460	12.5 × 20	530
1000	102	8 × 11.5	390	10 × 12.5	¦ 460	10 × 16	¦ 560	10 × 20 ¦ 680		12.5 × 20		12.5 × 25	¦ 950
2200	222	10 × 20	710	10 × 20	760	12.5 × 20	920	12.5 × 25	1090	16 × 25	1260	16 × 35.5	1470
3300	332	10 × 20	840	12.5 × 20	1000	12.5 × 25	1170	16 × 25	1400	16 × 35.5	1610	18 × 35.5	1770
4700	472	12.5 × 20	1090	12.5 × 25	1260	16 × 25	1480	16 × 31.5	¦ 1710	18 × 35.5	¦1910	20 × 40	2100
6800	682	12.5 × 25	1350	16 × 25	1570	16 × 35.5	1780	18 × 35.5	2040	20 × 40	2150	22 × 50	2500
10000	103	16 × 25	1650	16 × 35.5	1890	18 × 35.5	2060	20 × 40	2150	22 × 50	2650	25 × 50	2850
15000	153	16 × 35.5	2010	18 × 35.5	2180	20 × 40	2430	22 × 50	¦ 2750	25 × 50	¦3100		-
22000	223	18 × 40	2350	20 × 40	2650	22 × 50	3000	25 × 50	3250		-	Case size	Rated
33000	333	22 × 50	2800	22 × 50	3250	25 × 50	3450		<u> </u>		i	$\phi D \times L (mm)$	ripple

	V	63		100	)	160		200		250		315		350		400		450	
Cap.(µF)	Code	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
1	010					6.3 × 11	16	6.3 × 11	16	6.3 × 11	15	6.3 × 11	15	6.3 × 11	15	8 × 11.5	17	8 × 11.5	13
2.2	2R2		l I	5 × 11	21	6.3 × 11	25	6.3 × 11	25	6.3 × 11	23	8 × 11.5	26	8 × 11.5	26	10 × 12.5	30	10 × 12.5	¦ 23
3.3	3R3			5 × 11	29	6.3 × 11	30	6.3 × 11	30	8 × 11.5	32	10 × 12.5	38	10 × 12.5	38	10 × 12.5	38	10 × 16	31
4.7	4R7			5 × 11	32	6.3 × 11	34	8× 11.5	39	8 × 11.5	39	10 × 12.5	45	10 × 12.5	45	10 × 16	50	10 × 20	40
10	100	5×11	46	6.3 × 11	54	8 × 11.5	41	10 × 12.5	65	10 × 16	74	10 × 20	80	10 × 20	80	12.5 × 20	90	12.5 × 20	65
22	220	5×11	71	6.3 × 11	93	10 × 16	100	10 × 20	120	12.5 × 20	130	12.5 × 20	115	12.5 × 25	115	16 × 25	165	16 × 25	115
33	330	6.3 × 11	100	8 × 11.5	130	10 × 20	145	12.5 × 20	160	12.5 × 20	160	16 × 25	195	16 × 25	195	16 × 31.5	215	16 × 35.5	165
47	470	6.3 × 11	120	10 × 12.5	165	12.5 × 20	195	12.5 × 20	195	12.5 × 25	210	16 × 25	230	16 × 35.5	270	16 × 35.5	270	18 × 40	185
100	101	10 × 12.5	215	10 × 20	265	12.5 × 25	215	16 × 31.5	375	16 × 31.5	365	18 × 35.5	395	18 × 40	420	20 × 40	450	22 × 40	270
220	221	10 × 16	335	12.5 × 25	440	16 × 35.5	570	18 × 35.5	575	20 × 40	600	22 × 50	620	22 × 50	620	25 × 50	660		
330	331	10 × 20	510	12.5 × 25	540	18 × 40	750	20 × 40	705	22 × 50	730	25 × 50	760			i			
470	471	12.5 × 20	640	16 × 25	715	22 × 40	900	22 × 50	840	25 × 50	870								
1000	102	16 × 25	930	18 × 40	985	25 × 50	1310												ĺ
2200	222	18 × 35.5	1650	22 × 50	1750					i						i			
3300	332	20 × 40	1950	25 × 50	2070					I						I			
4700	472	22 × 50	2450															Case size	Rated
6800	682	25 × 50	2800															φD×L (mm)	ripple

Rated ripple current (mArms) at 105°C 120Hz

# • Frequency coefficient of rated ripple current

V	Cap. (µF)	50Hz	120Hz	300Hz	1 kHz	10 kHz or more
	2.2 to 47	0.75	1.00	1.35	1.57	2.00
6.3 to 100	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
100 to 150	0.47 to 220	0.80	1.00	1.25	1.40	1.60
160 to 450	330 to 1000	0.90	1.00	1.10	1.13	1.15