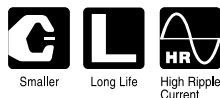
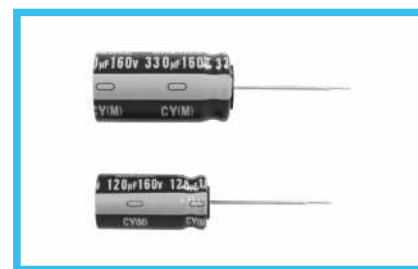
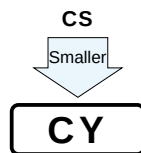


CY
series

Miniature Sized, High Ripple Current, High Reliability



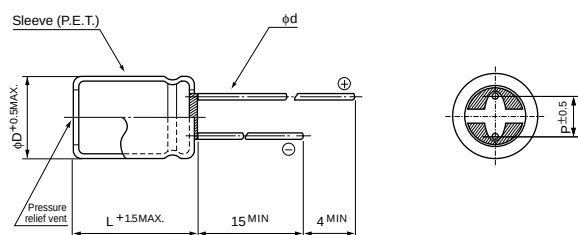
- High ripple current and Long Life product withstanding load life of 10000 to 12000 hours at +105°C.
- Suited for ballast application.
- Compliant to the RoHS directive (2011/65/EU).



Specifications

Item	Performance Characteristics									
Category Temperature Range	-40 to +105° C (160 to 400V), -25 to +105° C (420 to 500V)									
Rated Voltage Range	160 to 500V									
Rated Capacitance Range	6.8 to 560μF									
Capacitance Tolerance	±20% at 120Hz, 20°C									
Leakage Current	After 1 minute's application of rated voltage, leakage current is not more than 0.04CV+100 (μA)									
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz at 20°C									
	Rated voltage (V)	160	200	250	350	400	420	450	500	
	tan δ (MAX.)	0.20	0.20	0.20	0.24	0.24	0.24	0.24	0.24	
Stability at Low Temperature	Measurement frequency : 120Hz									
	Rated voltage (V)	160	200	250	350	400	420	450	500	
	Impedance ratio ZT / Z20 (MAX.)	Z-25° C / Z+20°C	3	3	3	5	5	6	6	6
		Z-40° C / Z+20°C	6	6	6	6	6	-	-	-
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after D.C. bias plus rated ripple current is applied for 12000 hours (10000 hours for 20L or less, 500V) at 105°C, the peak voltage shall not exceed the rated voltage.					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 dark brown sleeve.									

Radial Lead Type

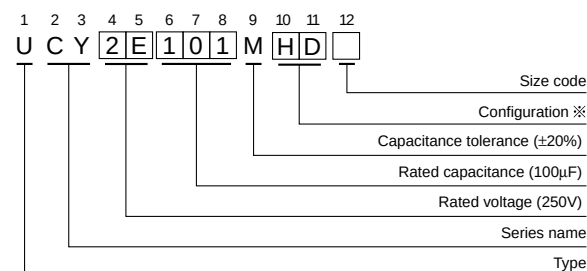


	10	12.5	16	18
φD	10	12.5	16	18
P	5.0	5.0	7.5	7.5
φd	0.6	0.6 ¹⁾	0.8	0.8

¹⁾ In case L > 25 for the φ12.5 dia. unit, lead dia. φd = 0.8mm.

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

Type numbering system (Example : 250V 100μF)



※ Configuration

φ D	Pb-free leadwire Pb-free PET sleeve
10	PD
12.5 to 18	HD

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	Code	V		160		200		250		350		400		420		450		500	
		2C		2D		2E		2V		2G		2G		W6		2W		2H	
6.8	6R8											10 × 16	140	10 × 16	105	10 × 16	105		
10	100											10 × 16	150	10 × 20	135	10 × 20	135	12.5 × 20	160
12	120							10 × 16	160	10 × 20	175	10 × 20	175	10 × 20	150	10 × 20	150		
15	150							10 × 20	180	10 × 20	180	10 × 25	185	10 × 25	185	10 × 25	185	12.5 × 25	220
18	180							10 × 20	215	10 × 25	235	10 × 31.5	215	10 × 31.5	215	10 × 31.5	215	12.5 × 31.5	240
22	220			10 × 16	225	10 × 16	225	10 × 25	255	10 × 31.5	275	12.5 × 20	285	12.5 × 25	300	12.5 × 25	300	12.5 × 35.5	280
27	270			10 × 16	235	10 × 20	255	10 × 31.5	305	12.5 × 20	360	12.5 × 25	340	12.5 × 25	340	12.5 × 25	340	12.5 × 40	310
33	330	10 × 16	260	10 × 20	305	10 × 20	305	12.5 × 20	400	12.5 × 25	385	12.5 × 31.5	400	12.5 × 31.5	400	12.5 × 31.5	400	16 × 31.5	350
39	390	10 × 16	295	10 × 20	325	10 × 25	345	12.5 × 25	455	12.5 × 31.5	510	12.5 × 35.5	500	12.5 × 40	525	12.5 × 40	525	16 × 40	440
47	470	10 × 20	375	12.5 × 20	490	10 × 25	345	12.5 × 20	490	12.5 × 31.5	590	12.5 × 35.5	590	12.5 × 40	590	12.5 × 40	590	18 × 31.5	440
56	560	10 × 20	380	10 × 25	415	12.5 × 20	515	12.5 × 20	515	12.5 × 31.5	590	12.5 × 35.5	590	12.5 × 40	590	12.5 × 40	590	18 × 35.5	480
68	680	10 × 25	455	10 × 31.5	485	12.5 × 25	615	12.5 × 31.5	740	12.5 × 35.5	740	12.5 × 40	720	16 × 31.5	645	16 × 31.5	645	18 × 40	525
82	820	10 × 31.5	534	12.5 × 25	645	12.5 × 31.5	715	12.5 × 31.5	740	12.5 × 35.5	740	12.5 × 40	720	16 × 31.5	645	16 × 31.5	645	18 × 40	525
100	101	12.5 × 20	645	12.5 × 25	695	12.5 × 31.5	715	12.5 × 31.5	740	12.5 × 35.5	740	12.5 × 40	720	16 × 31.5	645	16 × 31.5	645	18 × 40	525
120	121	12.5 × 25	760	12.5 × 31.5	810	12.5 × 35.5	810	12.5 × 40	890	12.5 × 45	940	12.5 × 50	990	12.5 × 55	1040	12.5 × 60	1090	12.5 × 65	1140
150	151	12.5 × 31.5	905	12.5 × 35.5	965	12.5 × 40	1025	12.5 × 45	1085	12.5 × 50	1145	12.5 × 55	1205	12.5 × 60	1265	12.5 × 65	1325	12.5 × 70	1385
180	181	12.5 × 35.5	1050	12.5 × 40	1110	12.5 × 45	1170	12.5 × 50	1230	12.5 × 55	1290	12.5 × 60	1350	12.5 × 65	1410	12.5 × 70	1470	12.5 × 75	1530
220	221	12.5 × 40	1200	12.5 × 45	1260	12.5 × 50	1320	12.5 × 55	1380	12.5 × 60	1440	12.5 × 65	1500	12.5 × 70	1560	12.5 × 75	1620	12.5 × 80	1680
270	271	12.5 × 45	1300	12.5 × 50	1360	12.5 × 55	1420	12.5 × 60	1480	12.5 × 65	1540	12.5 × 70	1600	12.5 × 75	1660	12.5 × 80	1720	12.5 × 85	1780
330	331	12.5 × 50	1510	12.5 × 55	1570	12.5 × 60	1630	12.5 × 65	1690	12.5 × 70	1750	12.5 × 75	1810	12.5 × 80	1870	12.5 × 85	1930	12.5 × 90	1990
390	391	12.5 × 55	1695	12.5 × 60	1755	12.5 × 65	1815	12.5 × 70	1875	12.5 × 75	1935	12.5 × 80	1995	12.5 × 85	2055	12.5 × 90	2115	12.5 × 95	2175
470	471	12.5 × 60	1920	12.5 × 65	1980	12.5 × 70	2040	12.5 × 75	2100	12.5 × 80	2160	12.5 × 85	2220	12.5 × 90	2280	12.5 × 95	2340	12.5 × 100	2400
560	561	12.5 × 65	2130	12.5 × 70	2190	12.5 × 75	2250	12.5 × 80	2310	12.5 × 85	2370	12.5 × 90	2430	12.5 × 95	2490	12.5 × 100	2550	12.5 × 105	2610
680	681	12.5 × 70	2300	12.5 × 75	2360	12.5 × 80	2420	12.5 × 85	2480	12.5 × 90	2540	12.5 × 95	2600	12.5 × 100	2660	12.5 × 105	2720	12.5 × 110	2780

● Frequency coefficient of rated ripple current

Frequency	50Hz	120Hz	1kHz	10kHz	100kHz or more
Coefficient	0.80	1.00	1.60	1.80	2.00

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

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

● : In this case, 3 will be put at 12th digit of type numbering system.

○ : In this case, 9 will be put at 12th digit of type numbering system.