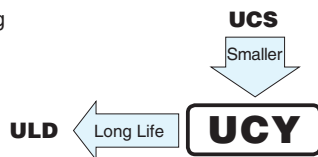


UCY

Miniature Sized, High Ripple Current,
High Reliability



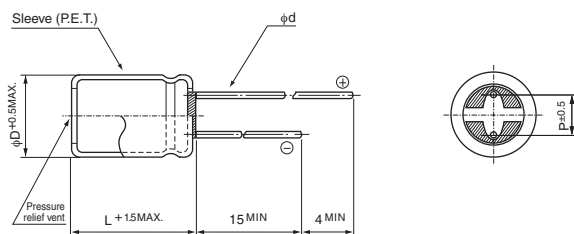
- High ripple current and Long Life product withstanding load life of 10000 to 12000 hours at +105°C.
- Suited for ballast application.
- Compliant to the RoHS directive (2011/65/EU).



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 680μF									
Capacitance Tolerance	±20% at 120Hz, 20°C									
Leakage Current	After 1 minute's application of rated voltage at 20°C, 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

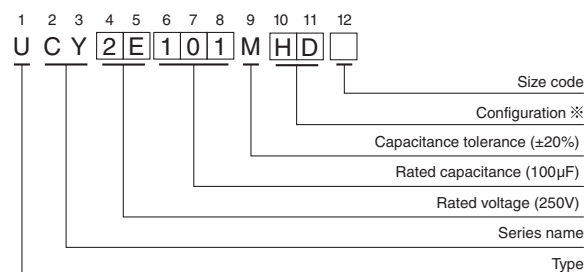


	(mm)			
φD	10	12.5	16	18
P	5.0	5.0	7.5	7.5
φd	0.6	0.6 [※]	0.8	0.8

※ 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.

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■ Dimensions

Cap	V	Code	160	200	250	350	400	420	450	500
			2C	2D	2E	2V	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 × 20 150	10 × 20 150	
15	150					10 × 20 180	10 × 20 180	10 × 25 185	10 × 25 185	12.5 × 25 220 ● 16 × 20 220
18	180					10 × 20 215	10 × 25 235	10 × 31.5 215	10 × 31.5 215 ▲ 12.5 × 20 255	12.5 × 31.5 240 ● 16 × 20 240
22	220			10 × 16 225	10 × 16 225	10 × 25 255 ○ 10 × 20 215 ● 12.5 × 20 325	10 × 31.5 275	12.5 × 20 285	12.5 × 25 300	12.5 × 35.5 280 ▲ 16 × 25 280 ● 18 × 20 280
27	270			10 × 16 235	10 × 20 255	10 × 31.5 305 ○ 10 × 25 255	12.5 × 20 360	12.5 × 25 340	12.5 × 25 340	12.5 × 40 310 ▲ 16 × 25 310
33	330	10 × 16 260	10 × 20 305	10 × 20 305	10 × 20 305 ● 12.5 × 20 400	12.5 × 20 380 ● 16 × 20 450	12.5 × 25 385 ● 16 × 20 450	12.5 × 31.5 400 ● 16 × 20 385	12.5 × 31.5 400 ● 16 × 20 385	16 × 31.5 350 ● 18 × 25 350
39	390	10 × 16 295	10 × 20 325	10 × 20 325	10 × 25 345	12.5 × 25 455	12.5 × 31.5 465 ○ 12.5 × 25 385	12.5 × 31.5 430	12.5 × 35.5 460 ● 18 × 20 440	16 × 35.5 380
47	470	10 × 20 375	● 12.5 × 20 490	10 × 20 360 ○ 10 × 25 345 ● 12.5 × 20 490	10 × 31.5 405 ○ 10 × 25 345 ● 12.5 × 20 490	12.5 × 25 510 ● 16 × 20 540	16 × 20 520 ▲ 12.5 × 31.5 510 ● 18 × 20 590	12.5 × 35.5 505 ▲ 16 × 25 500 ● 18 × 20 480	12.5 × 40 525 ▲ 16 × 25 500	16 × 40 440 ▲ 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 ▲ 16 × 20 565	12.5 × 35.5 630 ▲ 16 × 25 585 ● 18 × 20 600	12.5 × 40 570	16 × 31.5 585 ● 18 × 25 560	18 × 35.5 480
68	680	10 × 25 455 ● 12.5 × 20 590	10 × 31.5 485 ● 12.5 × 20 650	12.5 × 25 615 ● 16 × 20 650	12.5 × 35.5 695 ● 16 × 25 700 ▲ 18 × 20 690	16 × 31.5 740 ○ 16 × 25 640 ● 18 × 25 735	12.5 × 40 720 ○ 16 × 25 640 ● 18 × 25 735	16 × 31.5 645 ● 18 × 25 615	16 × 35.5 660	18 × 40 525
82	820	10 × 31.5 534 ○ 10 × 25 455 ● 12.5 × 20 640	12.5 × 25 645 ○ 12.5 × 20 645 ● 16 × 20 690	12.5 × 31.5 715 ○ 12.5 × 25 615 ● 16 × 20 690	16 × 25 845 ○ 12.5 × 35.5 785 ● 12.5 × 40 890 ▲ 18 × 20 815	16 × 31.5 740 ▲ 12.5 × 40 785 ○ 16 × 25 700 ● 18 × 25 765	16 × 31.5 805 ● 18 × 25 765	16 × 35.5 725 ▲ 18 × 31.5 730	16 × 40 750 ▲ 18 × 31.5 730	
100	101	12.5 × 20 645	12.5 × 25 695 ● 16 × 20 710	16 × 20 775 ▲ 12.5 × 35.5 785	16 × 25 845 ○ 12.5 × 35.5 785 ● 12.5 × 40 890 ▲ 18 × 20 815	16 × 31.5 825 ● 18 × 25 790	16 × 35.5 850 ▲ 18 × 31.5 875	16 × 40 825 ▲ 18 × 35.5 835	18 × 35.5 835	
120	121	12.5 × 25 760	16 × 20 775 ▲ 12.5 × 31.5 810	16 × 25 845 ○ 12.5 × 35.5 785 ● 12.5 × 40 890 ▲ 18 × 20 815	16 × 31.5 925 ▲ 18 × 31.5 940	18 × 31.5 940 ▲ 16 × 40 950 ● 18 × 35.5 960	18 × 40 930 ▲ 18 × 46 945	18 × 40 930 ▲ 18 × 46 945		
150	151	12.5 × 31.5 905 ○ 12.5 × 25 760 ● 16 × 20 945	12.5 × 35.5 965 ● 16 × 25 945 ▲ 18 × 20 910	16 × 25 970 ▲ 12.5 × 40 990	18 × 35.5 1080 ▲ 16 × 40 1000	18 × 40 1030				
180	181	16 × 20 1000 ○ 12.5 × 31.5 905 ▲ 12.5 × 35.5 1050	12.5 × 40 1090 ▲ 16 × 25 1035 ● 18 × 20 910	16 × 31.5 1110 ▲ 18 × 25 1050	18 × 40 1205	18 × 46 1110				
220	221	12.5 × 40 1200 ○ 12.5 × 35.5 1050 ● 16 × 25 1185 ▲ 18 × 20 1105	16 × 31.5 1230 ▲ 12.5 × 40 1090 ● 18 × 25 1185	16 × 40 1295 ○ 16 × 35.5 1220 ● 18 × 31.5 1160	18 × 46 1300					
270	271	18 × 25 1235 ▲ 12.5 × 40 1300	16 × 35.5 1400 ▲ 18 × 31.5 1410	18 × 35.5 1450 ▲ 16 × 40 1350						
330	331	16 × 31.5 1510 ▲ 18 × 25 1445	16 × 40 1595 ▲ 18 × 31.5 1560	18 × 46 1600 ○ 18 × 40 1530						
390	391	16 × 40 1730 ○ 16 × 35.5 1510 ▲ 18 × 31.5 1695	18 × 40 1780 ○ 18 × 35.5 1690							
470	471	18 × 35.5 1920 ▲ 16 × 40 1730	18 × 40 1850 ▲ 18 × 46 1900							
560	561	18 × 40 2130								Case size φD × L (mm) ※
680	681	18 × 46 2300								

● 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.