

UHW

Miniature Sized, High Ripple Current,
High Reliability



Smaller



Low Impedance

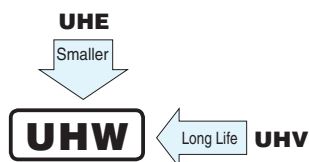


Long Life



Anti-Solvent
Feature

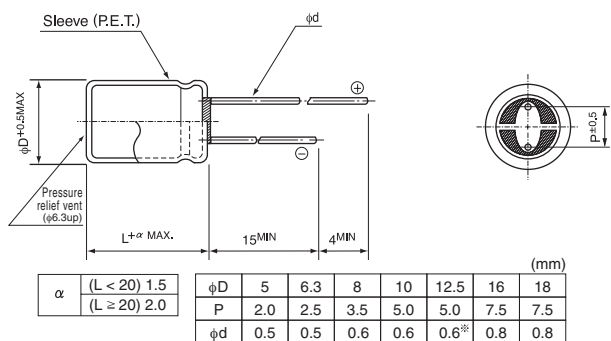
- Lower impedance at high frequency range.
- Smaller case size and high ripple current.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).



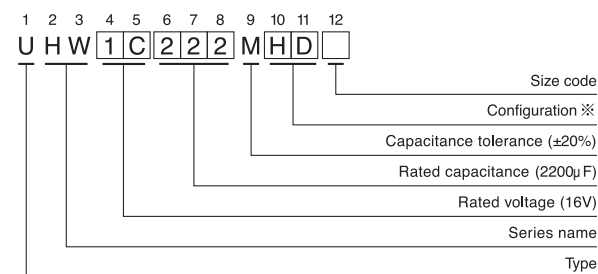
Specifications

Item	Performance Characteristics												
Category Temperature Range	-40 to +105°C												
Rated Voltage Range	6.3 to 100V												
Rated Capacitance Range	8.2 to 15000μF												
Capacitance Tolerance	±20% at 120Hz, 20°C												
Leakage Current	After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.01CV (μA)												
Tangent of loss angle (tan δ)	Rated voltage (V)		6.3	10	16	25	35	50	63	80	100	120Hz	
	tan δ (MAX.)		0.21	0.18	0.15	0.13	0.11	0.10	0.09	0.09	0.08	20°C	
	For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF.												
Stability at Low Temperature	Rated voltage (V)		6.3	10	16	25	35	50	63	80	100	120Hz	
	Impedance ratio (MAX.)	Z-25°C / Z+20°C	2	2	2	2	2	2	2	2	2		
		Z-40°C / Z+20°C	φD ≤ 6.3	5	5	4	4	4	4	3	3		3
		φ ≥ 8	3	3	3	3	3	3					
Endurance	The following specifications shall be met when the capacitors are restored to 20°C after D.C. bias plus rated ripple current is applied at 105°C , the peak voltage shall not exceed the rated voltage.												
	Case size		φD ≤ 6.3		8×11.5		8×15 , 8×20		φD ≥ 10				
	Rated voltage (V)	6.3V	6000 hours		8000 hours		9000 hours		10000 hours				
		10 to 50V	7000 hours		9000 hours		10000 hours		10000 hours				
		63 to 100V	8000 hours		10000 hours		11000 hours		12000 hours				
	Capacitance change		Within ±25% of the initial capacitance value (6.3V 10V : ±30%)										
	tan δ		200% or less than the initial specified value										
	Leakage current		Less than or equal to the initial specified value										
Marking	Printed with white color letter on black sleeve.												

Radial Lead Type



Type numbering system (Example : 16V 2200µF)



※ Configuration

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

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

Frequency coefficient of rated ripple current

Cap. (µF)	Frequency	120Hz	1kHz	10kHz	10kHz or more
8.2 to 33		0.40	0.70	0.90	1.00
39 to 180		0.40	0.75	0.90	1.00
220 to 560		0.50	0.85	0.94	1.00
680 to 1800		0.60	0.87	0.95	1.00
2200 to 3900		0.75	0.90	0.95	1.00
4700 to 15000		0.85	0.95	0.98	1.00

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.

UHW

■ Dimensions

Cap.(μF) Code		V (Code) Item		6.3 (0J)			10 (1A)			
				Case size φD × L (mm)	Impedance (Ω) MAX.		Case size φD × L (mm)	Impedance (Ω) MAX.		Rated ripple (mArms) 105°C /100kHz
					20°C /100kHz	-10°C /100kHz		20°C /100kHz	-10°C /100kHz	
150	151									
220	221	5 × 11		0.47	1.50	450	5 × 11	0.47	1.50	450
330	331						6.3 × 11	0.20	0.66	700
470	471	6.3 × 11		0.20	0.66	700				
560	561						8 × 11.5	0.10	0.36	1200
680	681									
820	821	8 × 11.5		0.10	0.36	1200	8 × 15	0.054	0.17	1600
1000	102	8 × 15		0.054	0.17	1600	10 × 12.5	0.048	0.15	1700
1200	122	10 × 12.5		0.048	0.15	1700	▲8 × 20	0.038	0.12	1960
							10 × 16	0.030	0.090	2000
1500	152	8 × 20		0.038	0.12	1960	10 × 16	0.030	0.090	2000
1800	182	10 × 16		0.030	0.090	2000	10 × 20	0.020	0.060	2500
2200	222	10 × 20		0.020	0.060	2500	10 × 25	0.017	0.051	2900
2700	272	10 × 20		0.020	0.060	2500	12.5 × 20	0.017	0.051	2600
3300	332	10 × 25		0.017	0.051	2900	12.5 × 20	0.017	0.051	2600
3900	392	12.5 × 20		0.017	0.051	2600	12.5 × 25	0.015	0.045	3200
4700	472	12.5 × 25		0.015	0.045	3200	12.5 × 31.5	0.012	0.036	3795
							▲16 × 20	0.015	0.045	3575
5600	562	12.5 × 31.5		0.012	0.036	3795	12.5 × 35.5	0.011	0.033	4120
		▲12.5 × 25		0.015	0.045	3200	▲16 × 25	0.013	0.039	3810
6800	682	12.5 × 31.5		0.012	0.033	3795				
		▲16 × 20		0.015	0.045	3575	16 × 25	0.013	0.039	3810
8200	822	16 × 25		0.013	0.039	3810	16 × 31.5	0.011	0.033	4000
10000	103	16 × 25		0.013	0.039	3810	16 × 31.5	0.011	0.033	4000
12000	123	16 × 31.5		0.011	0.033	4000	16 × 35.5	0.010	0.030	4200
15000	153	16 × 35.5		0.010	0.030	4200				

Cap.(μF) Code		V (Code) Item		16 (1C)			25 (1E)			
				Case size φD × L (mm)	Impedance (Ω) MAX.		Case size φD × L (mm)	Impedance (Ω) MAX.		Rated ripple (mArms) 105°C /100kHz
					20°C /100kHz	-10°C /100kHz		20°C /100kHz	-10°C /100kHz	
68	680						5 × 11	0.47	1.50	450
120	121	5 × 11		0.47	1.50	450				
150	151						6.3 × 11	0.20	0.66	700
180	181						6.3 × 11	0.20	0.66	700
270	271	6.3 × 11		0.20	0.66	700				
330	331						8 × 11.5	0.10	0.36	1200
390	391						8 × 15	0.054	0.17	1600
470	471	8 × 11.5		0.10	0.36	1200	10 × 12.5	0.048	0.15	1700
560	561	8 × 15		0.054	0.17	1600	8 × 20	0.038	0.12	1960
680	681	10 × 12.5		0.048	0.15	1700	10 × 16	0.030	0.090	2000
820	821	▲8 × 20		0.038	0.12	1960	10 × 20	0.020	0.060	2500
		10 × 16		0.030	0.090	2000	▲10 × 16	0.030	0.090	2000
1000	102	▲8 × 20		0.038	0.12	1960				
		10 × 16		0.030	0.090	2000	10 × 20	0.020	0.060	2500
1200	122	10 × 20		0.020	0.060	2500				
		▲10 × 16		0.030	0.090	2000	10 × 25	0.017	0.051	2900
1500	152	10 × 20		0.020	0.060	2500	12.5 × 20	0.017	0.051	2600
1800	182	10 × 25		0.017	0.051	2900	12.5 × 25	0.015	0.045	3200
2200	222	12.5 × 20		0.017	0.051	2600	12.5 × 25	0.015	0.045	3200
							▲16 × 20	0.015	0.045	3575
2700	272	12.5 × 25		0.015	0.045	3200	12.5 × 31.5	0.012	0.036	3795
							▲16 × 20	0.015	0.045	3575
3300	332	12.5 × 25		0.015	0.045	3200	12.5 × 35.5	0.011	0.033	4120
		▲16 × 20		0.015	0.045	3575	▲16 × 25	0.013	0.039	3810
3900	392	12.5 × 31.5		0.012	0.036	3795				
		▲16 × 20		0.015	0.045	3575	16 × 25	0.013	0.039	3810
4700	472	12.5 × 35.5		0.011	0.033	4120				
		▲16 × 25		0.013	0.039	3810	16 × 31.5	0.011	0.033	4000
5600	562	16 × 25		0.013	0.039	3810	16 × 35.5	0.010	0.030	4200
6800	682	16 × 31.5		0.011	0.033	4000				
8200	822	16 × 35.5		0.010	0.030	4200				

UHW

■ Dimensions

Cap.(μF) Code		V (Code) Item	35 (1V)				50 (1H)			
			Case size φD × L (mm)	Impedance (Ω) MAX.		Rated ripple (mArms) 105℃ /100kHz	Case size φD × L (mm)	Impedance (Ω) MAX.		Rated ripple (mArms) 105℃ /100kHz
				20℃ /100kHz	−10℃ /100kHz			20℃ /100kHz	−10℃ /100kHz	
27	270									
47	470	5 × 11	0.47	1.50	450	5 × 11	0.47	1.50	450	
56	560					6.3 × 11	0.20	0.66	700	
100	101	6.3× 11	0.20	0.66	700	8 × 11.5	0.10	0.36	1200	
120	121					8 × 11.5	0.10	0.36	1200	
150	151					8 × 15	0.054	0.17	1600	
180	181	8 × 11.5	0.10	0.36	1200	10 × 12.5	0.048	0.15	1700	
220	221	8 × 15	0.054	0.17	1600	▲10 × 12.5	0.048	0.15	1700	
						10 × 16	0.042	0.126	1650	
270	271	8 × 15	0.054	0.17	1600	▲8 × 20	0.038	0.12	1960	
		▲10 × 12.5	0.048	0.15	1700	10 × 20	0.030	0.090	2060	
330	331	10 × 12.5	0.048	0.15	1700	10 × 20	0.030	0.090	2060	
390	391	▲8 × 20	0.038	0.12	1960	10 × 25	0.028	0.084	2420	
		10 × 16	0.030	0.090	2000	▲10 × 20	0.030	0.090	2060	
470	471	10 × 16	0.030	0.090	2000	10 × 25	0.028	0.084	2420	
						▲12.5 × 20	0.027	0.081	2300	
560	561	10 × 20	0.020	0.060	2500	12.5 × 20	0.027	0.081	2300	
680	681	10 × 25	0.017	0.051	2900	12.5 × 25	0.023	0.069	2800	
		▲10 × 20	0.020	0.060	2500					
820	821	10 × 25	0.017	0.051	2900	12.5 × 25	0.023	0.069	2800	
		▲12.5 × 20	0.017	0.051	2600	▲16 × 20	0.023	0.069	3070	
1000	102	12.5 × 20	0.017	0.051	2600	12.5 × 31.5	0.020	0.060	3500	
						▲16 × 25	0.021	0.063	3270	
1200	122	12.5 × 25	0.015	0.045	3200	16 × 25	0.021	0.063	3270	
1500	152	16 × 20	0.015	0.045	3575	12.5 × 35.5	0.019	0.057	3810	
						▲16 × 25	0.021	0.063	3270	
1800	182	12.5 × 31.5	0.012	0.036	3795	16 × 31.5	0.019	0.057	3430	
		▲16 × 25	0.013	0.039	3810					
2200	222	12.5 × 35.5	0.011	0.033	4120	16 × 31.5	0.019	0.057	3430	
		▲16 × 25	0.013	0.039	3810					
2700	272					16 × 35.5	0.018	0.054	3600	
3300	332	16 × 31.5	0.011	0.033	4000					
3900	392	16 × 35.5	0.010	0.030	4200					

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

UHW

■ Dimensions

Cap.(μF)	Code	Item	63 (1J)				80 (1K)			
			Case size φD × L (mm)	Impedance (Ω) MAX.		Rated ripple (mArms) 105°C /100kHz	Case size φD × L (mm)	Impedance (Ω) MAX.		Rated ripple (mArms) 105°C /100kHz
				20°C /100kHz	-10°C /100kHz			20°C /100kHz	-10°C /100kHz	
12	120						5 × 11	1.20	5.40	310
18	180		5 × 11	1.20	5.40	310				
27	270						6.3 × 11	0.46	2.10	500
39	390		6.3 × 11	0.46	2.10	500				
47	470		6.3 × 11	0.46	2.10	500	8 × 11.5	0.29	1.30	950
68	680		8 × 11.5	0.29	1.30	950	8 × 15	0.20	0.90	1230
82	820		8 × 11.5	0.29	1.30	950	10 × 12.5	0.17	0.66	1280
100	101		8 × 15	0.20	0.90	1230	8 × 20	0.16	0.66	1580
120	121		8 × 15	0.20	0.90	1230	10 × 16	0.115	0.47	1040
			▲10 × 12.5	0.17	0.66	1280				
			8 × 20	0.16	0.66	1580				
150	151		▲10 × 12.5	0.17	0.66	1280				
			▲8 × 20	0.16	0.66	1580	10 × 20	0.088	0.34	1430
			10 × 16	0.115	0.47	1200	▲12.5 × 15	0.115	0.47	1430
220	221						10 × 25	0.072	0.28	1620
270	271		10 × 20	0.088	0.34	1570	10 × 31.5	0.063	0.18	1750
							▲12.5 × 20	0.065	0.18	1750
330	331		10 × 25	0.072	0.28	1990				
390	391		10 × 31.5	0.063	0.18	2050	12.5 × 25	0.049	0.14	2210
			▲12.5 × 20	0.065	0.18	1990				
470	471						12.5 × 31.5	0.044	0.13	2400
							▲16 × 20	0.050	0.15	1950
							12.5 × 35.5	0.038	0.11	2600
560	561		12.5 × 25	0.049	0.14	2460	▲18 × 20	0.047	0.14	2270
							12.5 × 40	0.033	0.095	2860
							▲16 × 25	0.040	0.12	2430
680	681		12.5 × 31.5	0.044	0.13	2760	16 × 31.5	0.033	0.095	2640
			▲16 × 20	0.050	0.15	2380	▲18 × 25	0.038	0.11	2500
820	821		12.5 × 35.5	0.038	0.11	3040	16 × 35.5	0.030	0.086	2860
			▲18 × 20	0.047	0.14	2460				
			12.5 × 40	0.033	0.095	3100				
1000	102		▲16 × 25	0.040	0.12	2890				
			16 × 31.5	0.025	0.072	2930	16 × 40	0.028	0.081	3510
			▲18 × 25	0.038	0.11	2930	▲18 × 31.5	0.031	0.090	2860
1500	152		16 × 35.5	0.023	0.066	3100	18 × 35.5	0.028	0.081	3510
			▲18 × 31.5	0.024	0.069	3100				
1800	182		16 × 40	0.021	0.060	3510	18 × 40	0.027	0.076	3860
			▲18 × 35.5	0.022	0.063	3510				
			18 × 40	0.020	0.057	3860				
2200	222									

Cap.(μF)	Code	Item	100 (2A)			
			Case size φD × L (mm)	Impedance (Ω) MAX.		Rated ripple (mArms) 105°C /100kHz
				20°C /100kHz	-10°C /100kHz	
8.2	8R2		5 × 11	1.20	5.40	310
18	180		6.3 × 11	0.46	2.10	500
33	330		8 × 11.5	0.29	1.30	950
47	470		8 × 15	0.20	0.90	1230
56	560		10 × 12.5	0.17	0.66	1280
68	680		8 × 20	0.16	0.66	1580
82	820		10 × 16	0.115	0.47	1040
100	101		10 × 20	0.088	0.34	1430
			▲12.5 × 15	0.115	0.47	1430
			10 × 25	0.072	0.28	1620
120	121		10 × 25	0.072	0.28	1620
180	181		12.5 × 20	0.065	0.18	1750
220	221		12.5 × 25	0.049	0.14	2210
270	271		12.5 × 31.5	0.044	0.13	2400
			▲16 × 20	0.050	0.15	1950
			12.5 × 35.5	0.038	0.11	2600
390	391		▲16 × 25	0.040	0.12	2430
			●18 × 20	0.047	0.14	2270
			12.5 × 40	0.033	0.095	2860
470	471		▲18 × 25	0.038	0.11	2500
			16 × 31.5	0.033	0.095	2640
			16 × 35.5	0.030	0.086	2860
680	681		▲18 × 31.5	0.031	0.090	2860
			16 × 40	0.028	0.081	3510
			▲18 × 35.5	0.028	0.081	3510
1000	102		18 × 40	0.027	0.076	3860

▲: 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.



**Стандарт
Электрон
Связь**

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научно-исследовательскими институтами России.

С нами вы становитесь еще успешнее!

Наши контакты:

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