

UHE

Miniature Sized, Low Impedance,
High Reliability



- Low impedance and high reliability withstanding 4000 hours to 10000 hours.
- 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	2.2 to 18000μF										
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 or 3 (μA), whichever is greater.										
Tangent of loss angle (tan δ)	Rated voltage (V)	6.3	10	16	25	35	50	63	100	120Hz 20°C	
	tan δ (MAX.)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08		
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	100	120Hz	
	Impedance ratio (MAX.)	Z-25°C/Z+20°C	4	3	2	2	2	2	2		2
		Z-40°C/Z+20°C	8	6	4	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	φD = 8, 10	φD ≥ 12.5						
	Rated voltage (V)	6.3 to 10WV	4000 hours	6000 hours	8000 hours						
		16 to 100WV	5000 hours	7000 hours	10000 hours						
	Capacitance change	Within ±25% 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										
Marking	Printed with white color letter on black sleeve.										

Radial Lead Type



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

Frequency coefficient of rated ripple current

Cap. (μF)	Frequency				
	50Hz	120Hz	300Hz	1kHz	10kHz or more
2.2 to 33	0.45	0.55	0.70	0.90	1.00
39 to 330	0.60	0.70	0.85	0.95	1.00
390 to 1000	0.65	0.75	0.90	0.98	1.00
1200 to 18000	0.75	0.80	0.95	1.00	1.00

Type numbering system (Example : 10V 1000μF)



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

● Dimension table in next page.

UHE

■ Dimensions

Cap.(μF)	V (Code)	Item Code	6.3 (0J)			10 (1A)				
			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	
100	101					5 × 11	0.58	2.3	210	
150	151	5 × 11	0.58	2.3	210					
220	221					6.3 × 11	0.22	0.87	340	
330	331	6.3 × 11	0.22	0.87	340					
470	471					8 × 11.5	0.13	0.52	640	
680	681	8 × 11.5	0.13	0.52	640	8 × 15	0.087	0.35	840	
						▲ 10 × 12.5	0.080	0.32	865	
820	821	10 × 12.5	0.080	0.32	865					
1000	102	8 × 15	0.087	0.35	840	8 × 20	0.069	0.27	1050	
						▲ 10 × 16	0.060	0.24	1210	
1200	122	8 × 20	0.069	0.27	1050	10 × 20	0.046	0.18	1400	
		▲ 10 × 16	0.060	0.24	1210					
1500	152	10 × 20	0.046	0.18	1400	10 × 25	0.042	0.17	1650	
						▲ 12.5 × 15	0.049	0.16	1450	
1800	182	12.5 × 15	0.049	0.16	1450					
2200	222	10 × 25	0.042	0.17	1650	10 × 31.5	0.031	0.12	1910	
						▲ 12.5 × 20	0.035	0.12	1900	
						● 16 × 15	0.042	0.12	1940	
2700	272	▲ 10 × 31.5	0.031	0.12	1910	18 × 15	0.043	0.11	2210	
		16 × 15	0.042	0.12	1940					
3300	332	12.5 × 20	0.035	0.12	1900	12.5 × 25	0.027	0.089	2230	
3900	392	12.5 × 25	0.027	0.089	2230	12.5 × 31.5	0.024	0.078	2650	
		▲ 18 × 15	0.043	0.11	2210	▲ 16 × 20	0.027	0.078	2530	
4700	472	12.5 × 31.5	0.024	0.078	2650	12.5 × 35.5	0.020	0.065	2880	
5600	562	12.5 × 35.5	0.020	0.065	2880	12.5 × 40	0.017	0.056	3350	
		▲ 16 × 20	0.027	0.078	2530	▲ 16 × 25	0.021	0.060	2930	
						● 18 × 20	0.026	0.067	2860	
6800	682	12.5 × 40	0.017	0.056	3350	16 × 31.5	0.017	0.050	3450	
		▲ 16 × 25	0.021	0.060	2930					
		● 18 × 20	0.026	0.067	2860					▲ 18 × 25
8200	822	16 × 31.5	0.017	0.050	3450	16 × 35.5	0.015	0.044	3610	
						▲ 18 × 31.5	0.015	0.040	4170	
10000	103	16 × 35.5	0.015	0.044	3610	16 × 40	0.013	0.038	4080	
		▲ 18 × 25	0.019	0.049	3140	▲ 18 × 35.5	0.014	0.038	4220	
12000	123	16 × 40	0.013	0.038	4080	18 × 40	0.012	0.032	4280	
		▲ 18 × 31.5	0.015	0.040	4170					
15000	153	18 × 35.5	0.014	0.038	4220					
18000	183	18 × 40	0.012	0.032	4280					

▲: 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.

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■ Dimensions

Cap.(μ F)	V (Code)	Item Code	16 (1C)			25 (1E)				
			Case size ϕ D \times L (mm)	Impedance (Ω) MAX.		Rated ripple (mArms) 105°C / 100kHz	Case size ϕ D \times L (mm)	Impedance (Ω) MAX.		Rated ripple (mArms) 105°C / 100kHz
				20°C / 100kHz	-10°C / 100kHz			20°C / 100kHz	-10°C / 100kHz	
47	470					5 \times 11	0.58	2.3	210	
56	560		5 \times 11	0.58	2.3	210				
100	101					6.3 \times 11	0.22	0.87	340	
120	121		6.3 \times 11	0.22	0.87	340				
220	221					8 \times 11.5	0.13	0.52	640	
330	331		8 \times 11.5	0.13	0.52	640	8 \times 15	0.087	0.35	840
			▲ 10 \times 12.5	0.080	0.32	865	▲ 10 \times 12.5	0.080	0.32	865
470	471		8 \times 15	0.087	0.35	840	8 \times 20	0.069	0.27	1050
			▲ 10 \times 12.5	0.080	0.32	865	▲ 10 \times 16	0.06	0.24	1210
680	681		8 \times 20	0.069	0.27	1050	10 \times 20	0.046	0.18	1400
			▲ 10 \times 16	0.060	0.24	1210	▲ 12.5 \times 15	0.049	0.16	1450
820	821					10 \times 25	0.042	0.17	1650	
1000	102		10 \times 20	0.046	0.18	1400	10 \times 31.5	0.031	0.12	1910
			▲ 12.5 \times 15	0.049	0.16	1450	▲ 12.5 \times 20	0.035	0.12	1900
							● 16 \times 15	0.042	0.12	1940
1200	122		10 \times 25	0.042	0.17	1650	18 \times 15	0.043	0.11	2210
1500	152		10 \times 31.5	0.031	0.12	1910				
			▲ 12.5 \times 20	0.035	0.12	1900	12.5 \times 25	0.027	0.089	2230
			● 16 \times 15	0.042	0.12	1940				
1800	182					12.5 \times 31.5	0.024	0.078	2650	
						▲ 16 \times 20	0.027	0.078	2530	
2200	222		12.5 \times 25	0.027	0.089	2230	12.5 \times 35.5	0.020	0.065	2880
			▲ 18 \times 15	0.043	0.11	2210	▲ 18 \times 20	0.026	0.067	2860
2700	272		12.5 \times 31.5	0.024	0.078	2650	12.5 \times 40	0.017	0.056	3350
			▲ 16 \times 20	0.027	0.078	2530	▲ 16 \times 25	0.021	0.060	2930
3300	332		12.5 \times 35.5	0.020	0.065	2880	16 \times 31.5	0.017	0.050	3450
							▲ 18 \times 25	0.019	0.049	3140
3900	392		12.5 \times 40	0.017	0.056	3350	16 \times 35.5	0.015	0.044	3610
			▲ 16 \times 25	0.021	0.060	2930				
			● 16 \times 20	0.026	0.067	2860	▲ 18 \times 31.5	0.015	0.040	4170
4700	472		16 \times 31.5	0.017	0.050	3450	16 \times 40	0.013	0.038	4080
			▲ 18 \times 25	0.019	0.049	3140	▲ 18 \times 35.5	0.014	0.038	4220
5600	562		16 \times 35.5	0.015	0.044	3610				
			▲ 18 \times 31.5	0.015	0.040	4170	18 \times 40	0.012	0.032	4280
6800	682		16 \times 40	0.013	0.038	4080				
8200	822		18 \times 35.5	0.014	0.038	4220				
10000	103		18 \times 40	0.012	0.032	4280				

▲ : 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.

UHE

■ Dimensions

V (Code)		35 (1V)				50 (1H)			
Cap. (μF)	Item Code	Case size φD × L (mm)	Impedance (Ω) MAX.		Rated ripple (mA _{rms}) 105°C / 100kHz	Case size φD × L (mm)	Impedance (Ω) MAX.		Rated ripple (mA _{rms}) 105°C / 100kHz
			20°C / 100kHz	-10°C / 100kHz			20°C / 100kHz	-10°C / 100kHz	
2.2	2R2					5 × 11	2.5	10	43
3.3	3R3					5 × 11	2.2	8.8	53
4.7	4R7					5 × 11	1.9	7.6	88
10	100					5 × 11	1.5	6	100
22	220					5 × 11	0.70	2.8	180
33	330	5 × 11	0.58	2.3	210	6.3 × 11	0.30	1.2	295
47	470	6.3 × 11	0.22	0.87	250	6.3 × 11	0.30	1.2	295
56	560	6.3 × 11	0.22	0.87	340	6.3 × 11	0.30	1.2	295
100	101	8 × 11.5	0.13	0.52	640	8 × 11.5	0.17	0.68	555
120	121					8 × 15	0.12	0.48	730
150	151	8 × 11.5	0.13	0.52	640	10 × 12.5	0.12	0.48	760
180	181					8 × 20	0.091	0.36	910
220	221	8 × 15	0.087	0.35	840	10 × 16	0.084	0.34	1050
		▲ 10 × 12.5	0.080	0.32	865				
270	271	8 × 20	0.069	0.27	1050	10 × 20	0.060	0.24	1220
		▲ 12.5 × 15				▲ 12.5 × 15	0.061	0.20	1260
330	331	10 × 16	0.060	0.24	1210	10 × 25	0.055	0.22	1440
						▲ 10 × 20	0.060	0.24	1220
470	471	10 × 20	0.046	0.18	1400	10 × 31.5	0.043	0.17	1690
		▲ 12.5 × 15	0.049	0.16	1450	▲ 12.5 × 20	0.045	0.15	1660
						● 16 × 15	0.055	0.17	1690
560	561	10 × 25	0.042	0.17	1650	12.5 × 25	0.034	0.11	1950
						▲ 18 × 15	0.054	0.15	1930
680	681	10 × 31.5	0.031	0.12	1910	12.5 × 31.5	0.030	0.10	2310
		▲ 12.5 × 20	0.035	0.12	1900				
		● 16 × 15	0.042	0.12	1940				
820	821				12.5 × 35.5	0.025	0.083	2510	
					▲ 16 × 20	0.034	0.10	2210	
1000	102	12.5 × 25	0.027	0.089	2230	12.5 × 40	0.021	0.069	2920
		▲ 18 × 15	0.043	0.11	2210	▲ 16 × 25	0.025	0.075	2555
						● 18 × 20	0.036	0.097	2490
1200	122	12.5 × 31.5	0.024	0.078	2650	16 × 31.5	0.022	0.066	3010
		▲ 16 × 20	0.027	0.078	2530	▲ 18 × 25	0.026	0.070	2740
1500	152	12.5 × 35.5	0.020	0.065	2880	16 × 35.5	0.019	0.057	3150
1800	182	12.5 × 40	0.017	0.056	3350	16 × 40	0.016	0.048	3710
		▲ 16 × 25	0.021	0.060	2930				
		● 18 × 20	0.026	0.067	2860				
2200	222	16 × 31.5	0.017	0.050	3450	▲ 18 × 35.5	0.017	0.046	3680
		▲ 18 × 25	0.019	0.049	3140				
2700	272	16 × 35.5	0.015	0.044	3610	18 × 40	0.014	0.038	3800
		▲ 18 × 31.5	0.015	0.040	4170				
3300	332	16 × 40	0.013	0.038	4080				
		▲ 18 × 35.5	0.014	0.038	4220				
3900	392	18 × 40	0.012	0.032	4280				

▲ : 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.

UHE

■ Dimensions

V (Code) Item Cap.(μF) Code		63 (1J)				100 (2A)			
		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	
6.8	6R8					5 × 11	2.3	9.3	62
15	150	5 × 11	2.3	9.3	62	6.3 × 11	1.2	5.0	126
27	270					8 × 11.5	0.63	2.8	260
33	330	6.3 × 11	1.2	5.0	126				
39	390					8 × 15	0.45	2.1	335
47	470	8 × 11.5	0.63	2.8	260	10 × 12.5	0.43	1.8	325
56	560	8 × 11.5	0.63	2.8	260	8 × 20	0.33	1.6	408
68	680					10 × 16	0.31	1.5	400
82	820	8 × 15	0.45	2.1	335	10 × 20	0.21	0.94	518
		▲ 10 × 12.5	0.43	1.8	325	▲ 12.5 × 15	0.23	1.1	527
100	101					10 × 25	0.20	0.84	595
						▲ 12.5 × 20	0.20	0.84	740
120	121	8 × 20	0.33	1.6	408	10 × 31.5	0.15	0.71	740
		▲ 10 × 16	0.31	1.5	400	▲ 12.5 × 20	0.16	0.64	765
150	151					16 × 15	0.14	0.66	895
180	181	10 × 20	0.21	0.94	518	12.5 × 25	0.12	0.45	875
		▲ 12.5 × 15	0.23	1.1	527	▲ 18 × 15	0.12	0.50	1030
220	221	10 × 25	0.20	0.84	595	12.5 × 31.5	0.10	0.42	1010
						▲ 16 × 20	0.091	0.38	1130
270	271	10 × 31.5	0.15	0.71	740	12.5 × 35.5	0.083	0.35	1140
		▲ 12.5 × 20	0.16	0.64	765				
		● 16 × 15	0.14	0.66	895	▲ 16 × 25	0.073	0.27	1350
330	331	12.5 × 25	0.12	0.45	875	12.5 × 40	0.071	0.30	1280
						▲ 18 × 20	0.080	0.30	1300
390	391	18 × 15	0.12	0.50	1030	16 × 31.5	0.054	0.20	1650
						▲ 18 × 25	0.057	0.21	1560
470	471	12.5 × 31.5	0.10	0.42	1010	16 × 35.5	0.045	0.17	1900
		▲ 16 × 20	0.091	0.38	1130	▲ 18 × 31.5	0.047	0.17	1720
560	561	12.5 × 35.5	0.083	0.35	1140	16 × 40	0.040	0.15	2130
		▲ 16 × 25	0.073	0.27	1350				
680	681	12.5 × 40	0.071	0.30	1280	18 × 35.5	0.040	0.15	1890
		▲ 18 × 20	0.080	0.30	1300				
820	821	16 × 31.5	0.054	0.20	1650	18 × 40	0.036	0.13	2470
		▲ 18 × 25	0.057	0.21	1560				
1000	102	16 × 35.5	0.045	0.17	1900				
		▲ 18 × 31.5	0.047	0.17	1720				
1200	122	16 × 40	0.040	0.15	2130				
		▲ 18 × 35.5	0.040	0.15	1890				
1500	152	18 × 40	0.036	0.13	2470				

▲ : 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.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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