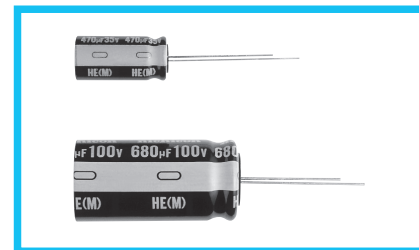


UHEMiniature Sized, Low Impedance,
High Reliability

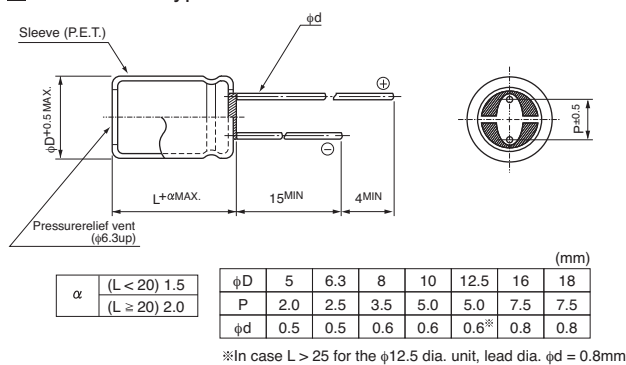
- Low impedance and high reliability withstanding 4000 hours to 10000 hours.
- Compliant to the RoHS directive (2011/65/EU).



Specifications

Item	Performance Characteristics									
Category Temperature Range	−40 to +105°C									
Rated Voltage Range	6.3 to 100V									
Rated Capacitance Range	0.47 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
	tan δ (MAX.)	0.22	0.19	0.16	0.14	0.12	0.10	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	100	120Hz
	Impedance ratio ZT / Z20 (MAX.)	Z-25°C / Z+20°C	4	3	2	2	2	2	2	
		Z-40°C / Z+20°C	8	6	4	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

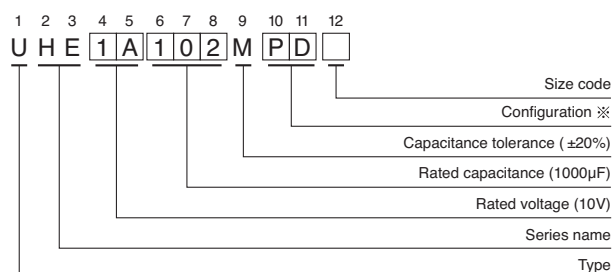


- Please refer to page 20 about the end seal configuration.

Frequency coefficient of rated ripple current

Cap. (µF)	Frequency	50Hz	120Hz	300Hz	1kHz	10kHz or more
0.47 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

φD	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

■ Standard Ratings

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

▲ : 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

■ Standard Ratings

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

■ Standard Ratings

Cap. (μF)	V (Code)	Item	35 (1V)				50 (1H)			
			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	
0.47	R47						5 × 11	5.5	22	17
1	010						5 × 11	4	16	30
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 ▲ 10 × 12.5	0.087 0.080	0.35 0.32	840 865	10 × 16	0.084	0.34	1050
270	271		8 × 20	0.069	0.27	1050	10 × 20 ▲ 12.5 × 15	0.060 0.061	0.24 0.20	1220 1260
330	331		10 × 16	0.060	0.24	1210	10 × 25 ▲ 10 × 20	0.055 0.060	0.22 0.24	1440 1220
470	471		10 × 20 ▲ 12.5 × 15	0.046 0.049	0.18 0.16	1400 1450	10 × 31.5 ▲ 12.5 × 20 ● 16 × 15	0.043 0.045 0.055	0.17 0.15 0.17	1690 1660 1690
560	561		10 × 25	0.042	0.17	1650	12.5 × 25 ▲ 18 × 15	0.034 0.054	0.11 0.15	1950 1930
680	681		10 × 31.5 ▲ 12.5 × 20 ● 16 × 15	0.031 0.035 0.042	0.12 0.12 0.12	1910 1900 1940	12.5 × 31.5	0.030	0.10	2310
820	821						12.5 × 35.5 ▲ 16 × 20	0.025 0.034	0.083 0.10	2510 2210
1000	102		12.5 × 25 ▲ 18 × 15	0.027 0.043	0.089 0.11	2230 2210	12.5 × 40 ▲ 16 × 25 ● 18 × 20	0.021 0.025 0.036	0.069 0.075 0.097	2920 2555 2490
1200	122		12.5 × 31.5 ▲ 16 × 20	0.024 0.027	0.078 0.078	2650 2530	16 × 31.5 ▲ 18 × 25	0.022 0.026	0.066 0.070	3010 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 ▲ 16 × 25 ● 18 × 20	0.017 0.021 0.026	0.056 0.060 0.067	3350 2930 2860	16 × 40 ▲ 18 × 31.5	0.016 0.021	0.048 0.057	3710 3635
2200	222		16 × 31.5 ▲ 18 × 25	0.017 0.019	0.050 0.049	3450 3140	▲ 18 × 35.5	0.017	0.046	3680
2700	272		16 × 35.5 ▲ 18 × 31.5	0.015 0.015	0.044 0.040	3610 4170	18 × 40	0.014	0.038	3800
3300	332		16 × 40 ▲ 18 × 35.5	0.013 0.014	0.038 0.038	4080 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

■ Standard Ratings

Cap.(μF)	V (Code) Item 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.

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Components Supply Platform

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Website :

Welcome to visit www.ameya360.com

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692
Email amall@ameya360.com
QQ 800077892
Skype ameyasales1 ameyasales2

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333
Email mkt@ameya360.com