

# UHQ Series (105°C 5000H)

- Compliant to the RoHS directive
- 105°C 5000H high temperature and high ripple current series
- For Home Appliance, Audio Amplifier, Frequency inverter, Vehicle Power Supply Module, Smart Meters, Medical Power Supply...



## ◆ SPECIFICATIONS

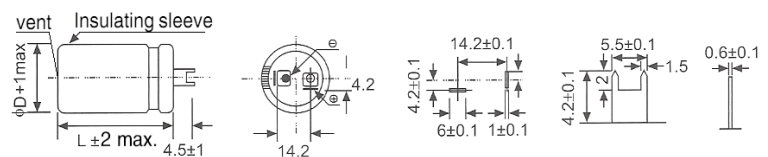
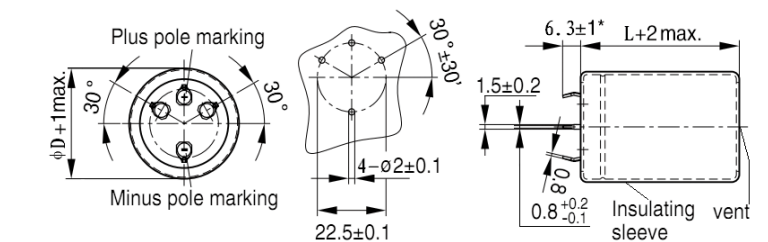
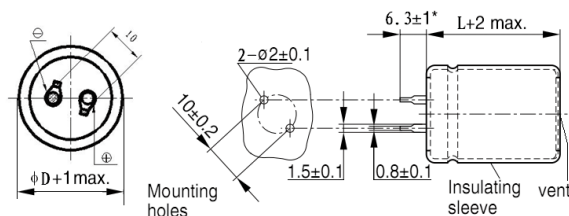
Item	Performance Characteristics							
Operating range	-40°C~+105°C				-25°C~+105°C			
Rated voltage range	10V~100V				160V~450V			
Capacitance tolerance	±20% (20°C, 120Hz)							
Leakage current	I≤0.01CV(µA) or 1.5mA (Whichever is smaller) (20°C, after 5 minutes) C=Nominal capacitance(µF), V=Rated voltage(V)							
Dissipation factor (20°C, 120Hz)	UR(V)	10	16	25	35	50	63 ~ 400	450
	tanδ	0.50	0.40	0.30	0.25	0.20	0.15	0.20
Stability at Low Temperature (Impedance ratio at 120Hz)	UR(V)	10 ~ 16	25	35	50~63	80~100	160~250	315~450
	Z(-25°C)/Z(+20°C)	4	3	3	2		4	8
	Z(-40°C)/Z(+20°C)	15	10	8	6	5	-	
Load Life	After applying rated voltage with specified ripple current for 5000 hours at 105°C (the peak voltage shall not exceed the rated voltage), and then restored for 24 hours, capacitor shall meet the following requirement:							
	Capacitance change	Within ±20% of the initial value.						
	Dissipation factor	Not more than 200% of the initial specified value.						
	Leakage current	Not more than the initial specified value.						
Shelf Life	After storing for 1000 hours at 105°C, UR to be applied for 30 minutes and then restored for 24 hours, capacitor shall meet the following requirement:							
	Capacitance change	Within ±15% of the initial value.						
	Dissipation factor	Not more than 150% of the initial specified value.						
	Leakage current	Not more than the initial specified value.						
Standard	JIS C 5101-4							

## ◆ Coefficient of rated ripple current

F (Hz)	50(60)	120	1K	10K	100K
UR(V) ≤50	0.95	1.00	1.05	1.08	1.08
63-100	0.92	1.00	1.13	1.19	1.20
160-250	0.81	1.00	1.32	1.45	1.50
315-500	0.77	1.00	1.30	1.41	1.43

## ◆ Drawing

Unit:mm



◆ Shorter terminal is: 4.0±0.5mm

## ◆ STANDARD RATING

Rated Voltage code (V.DC)	Capacitance (μF)	Case size ΦD×L(mm)	tanδ 20°C, 120Hz	Ripple current 105°C, 120Hz (Arms)	Max ESR 20°C, 120Hz(mΩ)	ESR(typ.) 20°C, 120Hz(mΩ)	Part number
10 1A (16)	12000	22×30	0.50	1.91	50	40	UHQ1A123KP030M
	15000	25×25	0.50	2.13	40	30	UHQ1A153KQ025M
	18000	25×30	0.50	2.40	32	26	UHQ1A183KQ030M
	22000	25×35	0.50	2.75	25	20	UHQ1A223KQ035M
	33000	30×30	0.50	3.56	18	13	UHQ1A333KR030M
	39000	30×35	0.50	3.98	15	11	UHQ1A393KR035M
	47000	35×40	0.50	4.06	12	9.1	UHQ1A473KR040M
	68000	35×50	0.50	5.93	8	6.3	UHQ1A683KS040M
	82000	35×50	0.50	7.25	7	5.2	UHQ1A823KS045M
16 1C (25)	6800	22*25	0.40	1.75	100	70	UHQ1C682KP025M
	10000	22*30	0.40	2.16	70	50	UHQ1C103KP030M
		25*25	0.40	2.16	70	50	UHQ1C103KQ025M
	12000	22*35	0.40	2.65	60	40	UHQ1C123KP035M
		25*30	0.40	2.65	60	40	UHQ1C123KQ030M
		30*25	0.40	2.65	60	40	UHQ1C123KR025M
	15000	22*40	0.40	2.91	45	35	UHQ1C153KP040M
		25*35	0.40	2.91	45	35	UHQ1C153KQ035M
	18000	22*45	0.40	3.34	40	30	UHQ1C183KP045M
		25*40	0.40	3.34	40	30	UHQ1C183KQ040M
		30*30	0.40	3.34	40	30	UHQ1C183KR030M
		35*25	0.40	3.34	40	30	UHQ1C183KS025M
	22000	25*45	0.40	3.68	30	22	UHQ1C223KQ045M
		30*35	0.40	3.68	30	22	UHQ1C223KR035M
	27000	25*50	0.40	4.13	25	20	UHQ1C273KQ050M
		30*40	0.40	4.13	25	20	UHQ1C273KR040M
		35*30	0.40	4.13	25	20	UHQ1C273KS030M
	33000	30*45	0.40	4.65	20	15	UHQ1C333KR045M
		35*35	0.40	4.65	20	15	UHQ1C333KS035M
	39000	30*50	0.40	5.19	20	15	UHQ1C393KR050M
35*40		0.40	5.19	20	15	UHQ1C393KS040M	
47000	35*45	0.40	5.85	15	12	UHQ1C473KS045M	
25 1E (35)	4700	22*25	0.30	1.73	120	80	UHQ1E472KP025M
	6800	22*30	0.30	2.11	80	55	UHQ1E682KP030M
		25*25	0.30	2.11	80	55	UHQ1E682KQ025M
	8200	22*35	0.30	2.48	65	45	UHQ1E822KP035M
		25*30	0.30	2.48	65	45	UHQ1E822KQ030M
		30*25	0.30	2.48	65	45	UHQ1E822KR025M
	10000	22*40	0.30	2.70	55	40	UHQ1E103KP040M
		25*35	0.30	2.70	55	40	UHQ1E103KQ035M
	12000	25*40	0.30	3.03	45	35	UHQ1E123KQ040M
		30*30	0.30	3.03	45	35	UHQ1E123KR030M
		35*25	0.30	3.03	45	35	UHQ1E123KS025M
	15000	25*45	0.30	3.49	35	25	UHQ1E153KQ045M
		30*35	0.30	3.49	35	25	UHQ1E153KR035M
		35*30	0.30	3.49	35	25	UHQ1E153KS030M
	18000	25*50	0.30	3.84	30	22	UHQ1E183KQ050M
		30*40	0.30	3.84	30	22	UHQ1E183KR040M
	22000	30*45	0.30	4.62	25	20	UHQ1E223KR045M
		35*35	0.30	4.62	25	20	UHQ1E223KS035M
	27000	35*45	0.30	5.18	20	15	UHQ1E273KS045M
	33000	35*50	0.30	5.82	20	12	UHQ1E333KS050M
35 1V (50)	3300	22*25	0.25	1.57	150	100	UHQ1V332KP025M
	4700	25*25	0.25	2.02	100	70	UHQ1V472KQ025M
		22*40	0.25	2.50	70	50	UHQ1V682KP040M
	6800	25*35	0.25	2.50	70	50	UHQ1V682KQ035M

## ◆ STANDARD RATING

Rated Voltage code (V.DC)	Capacitance (μF)	Case size ΦD×L(mm)	tanδ 20°C, 120Hz	Ripple current 105°C, 120Hz (Arms)	Max ESR 20°C, 120Hz(mΩ)	ESR(typ.) 20°C, 120Hz(mΩ)	Part number
35 1V (50)	10000	25*45	0.25	3.17	50	35	UHQ1V103KQ045M
		30*35	0.25	3.17	50	35	UHQ1V103KR035M
	12000	25*50	0.25	3.75	40	30	UHQ1V123KQ050M
		35*30	0.25	3.75	40	30	UHQ1V123KS030M
	15000	30*45	0.25	4.05	35	25	UHQ1V153KR045M
		35*35	0.25	4.05	35	25	UHQ1V153KS035M
18000	35*40	0.25	4.51	30	20	UHQ1V183KS040M	
22000	35*50	0.25	5.32	25	16	UHQ1V223KS050M	
50 1H (63)	1800	22*25	0.20	1.43	225	160	UHQ1H182KP025M
	2200	22*30	0.20	1.58	185	130	UHQ1H222KP030M
	2700	25*25	0.20	1.85	150	110	UHQ1H272KQ025M
	3300	22*35	0.20	2.08	125	90	UHQ1H332KP035M
		25*30	0.20	2.08	125	90	UHQ1H332KQ030M
	3900	25*35	0.20	2.48	110	75	UHQ1H392KQ035M
		30*25	0.20	2.48	110	75	UHQ1H392KR025M
	4700	30*30	0.20	2.89	90	60	UHQ1H472KR030M
		35*25	0.20	2.89	90	60	UHQ1H472KS025M
	5600	22*50	0.20	2.22	80	50	UHQ1H562KP050M
		25*40	0.20	2.22	80	50	UHQ1H562KQ040M
		30*35	0.20	2.22	80	50	UHQ1H562KR035M
	6800	30*40	0.20	3.67	60	45	UHQ1H682KR040M
		35*30	0.20	3.67	60	45	UHQ1H682KS030M
8200	30*45	0.20	4.01	50	35	UHQ1H822KR045M	
	35*35	0.20	4.01	50	35	UHQ1H822KS035M	
10000	30*50	0.20	4.42	42	30	UHQ1H103KR050M	
	35*40	0.20	4.42	42	30	UHQ1H103KS040M	
12000	35*45	0.20	4.94	35	25	UHQ1H123KS045M	
63 1J (80)	1200	22*25	0.15	1.37	225	160	UHQ1J122KP025M
	1800	22*30	0.15	1.65	150	110	UHQ1J182KP030M
		25*25	0.15	1.65	150	110	UHQ1J182KQ025M
	2200	22*35	0.15	1.87	125	90	UHQ1J222KP035M
		25*30	0.15	1.87	125	90	UHQ1J222KQ030M
	2700	22*40	0.15	2.16	100	70	UHQ1J272KP040M
		25*35	0.15	2.16	100	70	UHQ1J272KQ035M
		30*25	0.15	2.16	100	70	UHQ1J272KR025M
	3300	25*40	0.15	2.61	80	60	UHQ1J332KQ040M
		30*30	0.15	2.61	80	60	UHQ1J332KR030M
		35*25	0.15	2.61	80	60	UHQ1J332KS025M
	3900	25*45	0.15	2.75	70	50	UHQ1J392KQ045M
		30*35	0.15	2.75	70	50	UHQ1J392KR035M
	4700	25*50	0.15	3.13	60	40	UHQ1J472KQ050M
		30*40	0.15	3.13	60	40	UHQ1J472KR040M
		35*30	0.15	3.13	60	40	UHQ1J472KS030M
	5600	30*45	0.15	3.55	50	35	UHQ1J562KR045M
		35*35	0.15	3.55	50	35	UHQ1J562KS035M
6800	30*50	0.15	4.03	40	30	UHQ1J682KR050M	
	35*40	0.15	4.03	40	30	UHQ1J682KS040M	
8200	35*45	0.15	4.51	35	25	UHQ1J822KS045M	
10000	35*50	0.15	5.07	30	20	UHQ1J103KS050M	
80 1K (100)	1000	22*25	0.15	1.35	270	190	UHQ1K102KP025M
	1200	22*30	0.15	1.51	230	160	UHQ1K122KP030M
		25*25	0.15	1.51	230	160	UHQ1K122KQ025M
	1500	22*35	0.15	1.75	180	130	UHQ1K152KP035M
		25*30	0.15	1.75	180	130	UHQ1K152KQ030M
	1800	22*40	0.15	1.98	150	110	UHQ1K182KP040M
30*25		0.15	1.98	150	110	UHQ1K182KR025M	

**◆ STANDARD RATING**

Rated Voltage code (V.DC)	Capacitance (μF)	Case size ΦD×L(mm)	tanδ 20°C, 120Hz	Ripple current 105°C, 120Hz (Arms)	Max ESR 20°C, 120Hz(mΩ)	ESR(typ.) 20°C, 120Hz(mΩ)	Part number
80 1K (100)	2200	25*35	0.15	2.35	125	90	UHQ1K222KQ035M
		30*30	0.15	2.35	125	90	UHQ1K222KR030M
		35*25	0.15	2.35	125	90	UHQ1K222KS025M
	2700	25*45	0.15	2.63	100	70	UHQ1K272KQ045M
		30*35	0.15	2.63	100	70	UHQ1K272KR035M
	3300	25*50	0.15	3.01	80	60	UHQ1K332KQ050M
		30*40	0.15	3.01	80	60	UHQ1K332KR040M
		35*30	0.15	3.01	80	60	UHQ1K332KS030M
	3900	30*45	0.15	3.36	70	50	UHQ1K392KR045M
		35*35	0.15	3.36	70	50	UHQ1K392KS035M
	4700	30*50	0.15	3.85	60	40	UHQ1K472KR050M
		35*40	0.15	3.85	60	40	UHQ1K472KS040M
5600	35*45	0.15	4.19	50	35	UHQ1K562KS045M	
6800	35*50	0.15	4.53	40	30	UHQ1K682KS050M	
100 2A (125)	560	22*25	0.15	1.17	480	340	UHQ2A561KP025M
	820	22*30	0.15	1.47	330	230	UHQ2A821KP030M
		25*25	0.15	1.47	330	230	UHQ2A821KQ025M
	1000	22*35	0.15	1.69	270	190	UHQ2A102KP035M
		25*30	0.15	1.69	270	190	UHQ2A102KQ030M
	1200	22*40	0.15	1.90	230	160	UHQ2A122KP040M
		25*35	0.15	1.90	230	160	UHQ2A122KQ035M
		30*25	0.15	1.90	230	160	UHQ2A122KR025M
	1500	25*40	0.15	2.25	180	130	UHQ2A152KQ040M
		30*30	0.15	2.25	180	130	UHQ2A152KR030M
		35*25	0.15	2.25	180	130	UHQ2A152KS025M
	1800	25*45	0.15	2.47	150	110	UHQ2A182KQ045M
		30*35	0.15	2.47	150	110	UHQ2A182KR035M
	2200	25*50	0.15	2.91	125	85	UHQ2A222KQ050M
		30*40	0.15	2.91	125	85	UHQ2A222KR040M
		35*30	0.15	2.91	125	85	UHQ2A222KS030M
	2700	30*45	0.15	3.19	100	70	UHQ2A272KR045M
		35*35	0.15	3.19	100	70	UHQ2A272KS035M
	3300	30*50	0.15	3.59	80	60	UHQ2A332KR050M
		35*40	0.15	3.59	80	60	UHQ2A332KS040M
	3900	35*45	0.15	3.99	70	50	UHQ2A392KS045M
	4700	35*50	0.15	4.49	60	40	UHQ2A472KS050M
160 2C (200)	330	22*25	0.15	1.35	610	430	UHQ2C331KP025M
	390	22*30	0.15	1.57	510	360	UHQ2C391KP030M
	470	22*35	0.15	1.68	430	300	UHQ2C471KP035M
		25*25	0.15	1.68	430	300	UHQ2C471KQ025M
	560	22*40	0.15	1.87	355	250	UHQ2C561KP040M
		25*30	0.15	1.87	355	250	UHQ2C561KQ030M
	680	22*45	0.15	2.05	300	210	UHQ2C681KP045M
		25*35	0.15	2.05	300	210	UHQ2C681KQ035M
		30*25	0.15	2.05	300	210	UHQ2C681KR025M
	820	25*40	0.15	2.26	245	170	UHQ2C821KQ040M
		30*30	0.15	2.26	245	170	UHQ2C821KR030M
	1000	25*45	0.15	2.70	200	140	UHQ2C102KQ045M
		30*35	0.15	2.70	200	140	UHQ2C102KR035M
	1200	25*50	0.15	3.19	170	120	UHQ2C122KQ050M
		30*40	0.15	3.19	170	120	UHQ2C122KR040M
		35*30	0.15	3.19	170	120	UHQ2C122KS030M
	1500	30*45	0.15	3.45	135	95	UHQ2C152KR045M
		35*35	0.15	3.45	135	95	UHQ2C152KS035M
1800	35*45	0.15	3.90	120	80	UHQ2C182KS045M	
2200	35*50	0.15	4.39	100	70	UHQ2C222KS050M	

◆ STANDARD RATING

Rated Voltage code (V.DC)	Capacitance (μF)	Case size ΦD×L(mm)	tanδ 20°C, 120Hz	Ripple current 105°C, 120Hz (Arms)	Max ESR 20°C, 120Hz(mΩ)	ESR(typ.) 20°C, 120Hz(mΩ)	Part number
200 2D (250)	220	22*25	0.15	1.19	910	640	UHQ2D221KP025M
	270	22*30	0.15	1.30	740	520	UHQ2D271KP030M
	330	25*25	0.15	1.48	610	430	UHQ2D331KQ025M
	390	22*35	0.15	1.53	510	360	UHQ2D391KP035M
	470	22*40	0.15	1.71	425	300	UHQ2D471KP040M
		25*30	0.15	1.71	425	300	UHQ2D471KQ030M
		30*25	0.15	1.71	425	300	UHQ2D471KR025M
	560	22*45	0.15	1.89	355	250	UHQ2D561KP045M
		25*35	0.15	1.89	355	250	UHQ2D561KQ035M
	680	22*50	0.15	2.09	300	210	UHQ2D681KP050M
		25*40	0.15	2.09	300	210	UHQ2D681KQ040M
		30*30	0.15	2.09	300	210	UHQ2D681KR030M
	820	25*50	0.15	2.44	245	170	UHQ2D821KQ050M
		30*35	0.15	2.44	245	170	UHQ2D821KR035M
		35*30	0.15	2.44	245	170	UHQ2D821KS030M
	1000	30*45	0.15	2.87	200	140	UHQ2D102KR045M
		35*35	0.15	2.87	200	140	UHQ2D102KS035M
	1200	30*50	0.15	3.29	170	120	UHQ2D122KR050M
35*40		0.15	3.29	170	120	UHQ2D122KS040M	
1500	35*45	0.15	3.73	140	100	UHQ2D152KS045M	
1800	35*50	0.15	4.16	120	80	UHQ2D182KS050M	
250 2E (300)	180	22*25	0.15	1.01	1110	780	UHQ2E181KP025M
	220	22*30	0.15	1.20	910	640	UHQ2E221KP030M
		25*25	0.15	1.20	910	640	UHQ2E221KQ025M
	270	22*35	0.15	1.25	740	520	UHQ2E271KP035M
	330	22*40	0.15	1.41	610	430	UHQ2E331KP040M
		25*30	0.15	1.41	610	430	UHQ2E331KQ030M
		30*25	0.15	1.41	610	430	UHQ2E331KR025M
	390	22*45	0.15	1.62	510	360	UHQ2E391KP045M
		25*35	0.15	1.62	510	360	UHQ2E391KQ035M
	470	25*40	0.15	1.74	430	300	UHQ2E471KQ040M
		30*30	0.15	1.74	430	300	UHQ2E471KR030M
		35*25	0.15	1.74	430	300	UHQ2E471KS025M
	560	25*45	0.15	2.02	360	250	UHQ2E561KQ045M
		30*35	0.15	2.02	360	250	UHQ2E561KR035M
		35*30	0.15	2.02	360	250	UHQ2E561KS030M
	680	25*50	0.15	2.40	300	210	UHQ2E681KQ050M
		30*40	0.15	2.40	300	210	UHQ2E681KR040M
	820	30*45	0.15	2.54	245	170	UHQ2E821KR045M
35*35		0.15	2.54	245	170	UHQ2E821KS035M	
1000	30*50	0.15	2.91	200	140	UHQ2E102KR050M	
	35*40	0.15	2.91	200	140	UHQ2E102KS040M	
1200	35*45	0.15	3.29	170	120	UHQ2E122KS045M	
1500	35*50	0.15	3.86	170	120	UHQ2E152KS050M	
315 2F (365)	100	22*25	0.15	0.75	2000	1600	UHQ2F101KP025M
	120	22*25	0.15	0.85	2000	1600	UHQ2F121KP025M
	150	22*30	0.15	0.92	1330	1100	UHQ2F151KP030M
		25*25	0.15	0.92	1330	1100	UHQ2F151KQ025M
	180	22*35	0.15	1.03	1110	890	UHQ2F181KP035M
		25*30	0.15	1.03	1110	890	UHQ2F181KQ030M
	220	22*40	0.15	1.25	910	730	UHQ2F221KP040M
		25*35	0.15	1.25	910	730	UHQ2F221KQ035M
	270	22*45	0.15	1.42	740	600	UHQ2F271KP045M
25*40		0.15	1.42	740	600	UHQ2F271KQ040M	
30*30		0.15	1.42	740	600	UHQ2F271KR030M	
	35*25	0.15	1.42	740	600	UHQ2F271KS025M	

## ◆ STANDARD RATING

Rated Voltage code (V.DC)	Capacitance (μF)	Case size ΦD×L(mm)	tanδ 20°C, 120Hz	Ripple current 105°C, 120Hz (Arms)	Max ESR 20°C, 120Hz(mΩ)	ESR(typ.) 20°C, 120Hz(mΩ)	Part number	
315 2F (365)	330	25*45	0.15	1.54	610	490	UHQ2F331KQ045M	
		30*35	0.15	1.54	610	490	UHQ2F331KR035M	
	390	30*40	0.15	1.73	520	410	UHQ2F391KR040M	
		35*30	0.15	1.73	520	410	UHQ2F391KS030M	
	470	30*45	0.15	1.96	430	345	UHQ2F471KR045M	
		35*35	0.15	1.96	430	345	UHQ2F471KS035M	
	560	30*50	0.15	2.19	360	290	UHQ2F561KR050M	
		35*40	0.15	2.19	360	290	UHQ2F561KS040M	
	680	35*45	0.15	2.54	300	240	UHQ2F681KS045M	
	350 2V (400)	82	22*30	0.15	0.65	2940	1620	UHQ2V820KP030M
		100	25*25	0.15	0.75	1995	1100	UHQ2V101KQ025M
		120	22*35	0.15	0.84	1660	920	UHQ2V121KP035M
150		22*40	0.15	0.92	1330	730	UHQ2V151KP040M	
180		22*45	0.15	1.03	1110	610	UHQ2V181KP045M	
		25*35	0.15	1.03	1110	610	UHQ2V181KQ035M	
		30*30	0.15	1.03	1110	610	UHQ2V181KR030M	
220		22*50	0.15	1.14	910	500	UHQ2V221KP050M	
		25*40	0.15	1.14	910	500	UHQ2V221KQ040M	
270		25*50	0.15	1.35	740	410	UHQ2V271KQ050M	
		30*35	0.15	1.35	740	410	UHQ2V271KR035M	
		35*30	0.15	1.35	740	410	UHQ2V271KS030M	
330		30*45	0.15	1.56	610	340	UHQ2V331KR045M	
		35*35	0.15	1.56	610	340	UHQ2V331KS035M	
390		30*50	0.15	1.74	510	285	UHQ2V391KR050M	
		35*40	0.15	1.74	510	285	UHQ2V391KS040M	
470		35*45	0.15	1.99	425	240	UHQ2V471KS045M	
560		35*50	0.15	2.25	355	200	UHQ2V561KS050M	
400 2G (450)	68	22*25	0.15	0.54	2930	1525	UHQ2G680KP025M	
	82	25*25	0.15	0.71	2430	1265	UHQ2G820KQ025M	
	100	22*30	0.15	0.86	2000	1035	UHQ2G101KP030M	
	120	22*35	0.15	0.95	1660	865	UHQ2G121KP035M	
		25*30	0.15	0.95	1660	865	UHQ2G121KQ030M	
		30*25	0.15	0.95	1660	865	UHQ2G121KR025M	
	150	22*40	0.15	1.03	1330	690	UHQ2G151KP040M	
		25*35	0.15	1.03	1330	690	UHQ2G151KQ035M	
	180	25*40	0.15	1.14	1110	575	UHQ2G181KQ040M	
		30*30	0.15	1.14	1110	575	UHQ2G181KR030M	
		35*25	0.15	1.14	1110	575	UHQ2G181KS025M	
	220	25*45	0.15	1.25	910	475	UHQ2G221KQ045M	
		30*35	0.15	1.25	910	475	UHQ2G221KR035M	
	270	25*50	0.15	1.40	740	385	UHQ2G271KQ050M	
		30*40	0.15	1.40	740	385	UHQ2G271KR040M	
		35*30	0.15	1.40	740	385	UHQ2G271KS030M	
	330	30*45	0.15	1.59	610	315	UHQ2G331KR045M	
		35*35	0.15	1.59	610	315	UHQ2G331KS035M	
	390	30*50	0.15	1.78	510	265	UHQ2G391KR050M	
		35*40	0.15	1.78	510	265	UHQ2G391KS040M	
470	35*45	0.15	2.05	425	220	UHQ2G471KS045M		
560	35*50	0.15	2.32	355	185	UHQ2G561KS050M		
680	35*60	0.15	2.48	305	165	UHQ2G681KS060M		
450 2W (500)	56	22*30	0.20	0.63	4740	2370	UHQ2W560KP030M	
	68	22*30	0.20	0.72	3910	1960	UHQ2W680KP030M	
		25*25	0.20	0.72	3910	1960	UHQ2W680KQ025M	
	82	22*35	0.20	0.92	3240	1620	UHQ2W820KP035M	
		25*30	0.20	0.92	3240	1620	UHQ2W820KQ030M	

## ◆ STANDARD RATING

Rated Voltage code (V.DC)	Capacitance (μF)	Case size ΦD×L(mm)	tanδ 20°C, 120Hz	Ripple current 105°C, 120Hz (Arms)	Max ESR 20°C, 120Hz(mΩ)	ESR(typ.) 20°C, 120Hz(mΩ)	Part number
450 2W (500)	100	22*40	0.20	1.14	2655	1330	UHQ2W101KP040M
		25*30	0.20	1.14	2655	1330	UHQ2W101KQ030M
		30*25	0.20	1.14	2655	1330	UHQ2W101KR025M
	120	22*45	0.20	1.22	2215	1110	UHQ2W121KP045M
		25*35	0.20	1.22	2215	1110	UHQ2W121KQ035M
	150	25*40	0.20	1.41	1770	885	UHQ2W151KQ040M
		30*30	0.20	1.41	1770	885	UHQ2W151KR030M
		35*25	0.20	1.41	1770	885	UHQ2W151KS025M
	180	25*45	0.20	1.73	1475	740	UHQ2W181KQ045M
		30*35	0.20	1.73	1475	740	UHQ2W181KR035M
	220	25*50	0.20	1.89	1210	610	UHQ2W221KQ050M
		30*40	0.20	1.89	1210	610	UHQ2W221KR040M
		35*30	0.20	1.89	1210	610	UHQ2W221KS030M
	270	30*45	0.20	2.05	990	500	UHQ2W271KR045M
		35*35	0.20	2.05	990	500	UHQ2W271KS035M
	330	30*50	0.20	2.37	810	410	UHQ2W331KR050M
		35*40	0.20	2.37	810	410	UHQ2W331KS040M
	390	35*45	0.20	2.68	685	340	UHQ2W391KS045M
470	35*50	0.20	2.98	565	290	UHQ2W471KS050M	
560	35*50	0.20	3.13	360	320	UHQ2W561KS050M	

- The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 10°C rise.
- When long life performance is required in actual use, the rms ripple current has to be reduced.