

UHP Series (105°C 2000H)

- Compliant to the RoHS directive
- 105°C 2000H high temperature and high ripple current series
- For Home Appliance, Audio Amplifier, Frequency inverter, Vehicle Power Supply Module, Smart Meters, Medical Power Supply...



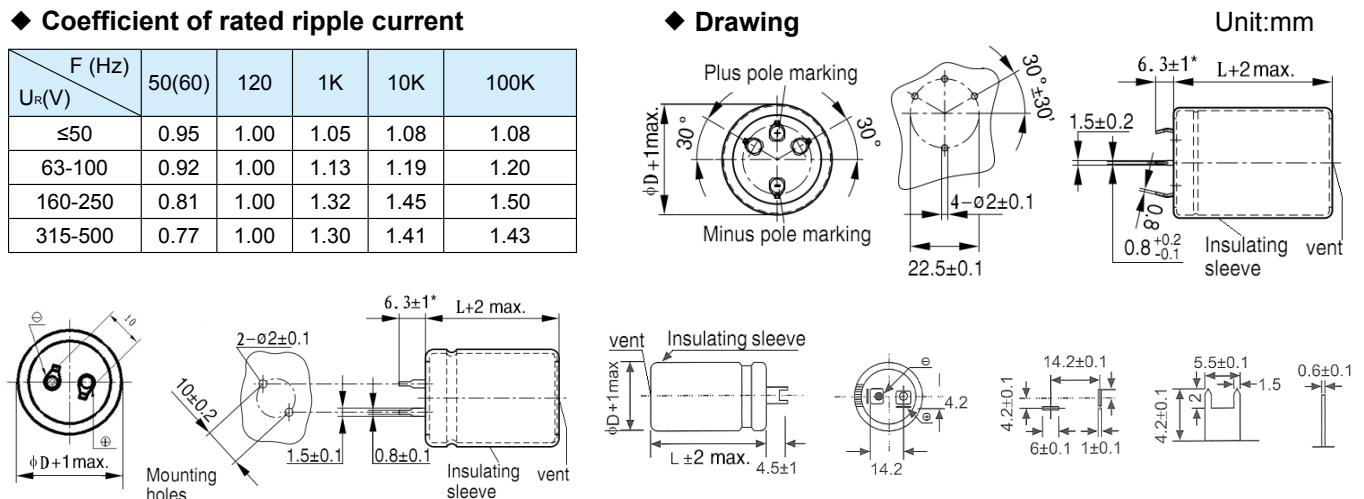
◆ SPECIFICATIONS

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	0.400	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 2000 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



◆ 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	1.77	50	40	UHP1A123KP030M
	15000	25×25	0.50	1.97	40	30	UHP1A153KQ025M
	18000	25×30	0.50	2.23	32	26	UHP1A183KQ030M
	22000	25×35	0.50	2.55	25	20	UHP1A223KQ035M
	33000	30×30	0.50	3.30	18	13	UHP1A333KR030M
	39000	30×35	0.50	3.69	15	11	UHP1A393KR035M
	47000	35×40	0.50	3.76	12	9.1	UHP1A473KR040M
	68000	35×50	0.50	5.50	8	6.3	UHP1A683KS040M
	82000	35×50	0.50	6.72	7	5.2	UHP1A823KS045M
16 1C (25)	6800	22*25	0.40	1.63	100	70	UHP1C682KP025M
	10000	22*30	0.40	2.00	70	50	UHP1C103KP030M
		25*25	0.40	2.00	70	50	UHP1C103KQ025M
	12000	22*35	0.40	2.45	60	40	UHP1C123KP035M
		25*30	0.40	2.45	60	40	UHP1C123KQ030M
		30*25	0.40	2.45	60	40	UHP1C123KR025M
	15000	22*40	0.40	2.70	45	35	UHP1C153KP040M
		25*35	0.40	2.70	45	35	UHP1C153KQ035M
	18000	22*45	0.40	3.10	40	30	UHP1C183KP045M
		25*40	0.40	3.10	40	30	UHP1C183KQ040M
		30*30	0.40	3.10	40	30	UHP1C183KR030M
		35*25	0.40	3.10	40	30	UHP1C183KS025M
	22000	25*45	0.40	3.41	30	22	UHP1C223KQ045M
		30*35	0.40	3.41	30	22	UHP1C223KR035M
	27000	25*50	0.40	3.83	25	20	UHP1C273KQ050M
		30*40	0.40	3.83	25	20	UHP1C273KR040M
		35*30	0.40	3.83	25	20	UHP1C273KS030M
	33000	30*45	0.40	4.31	20	15	UHP1C333KR045M
		35*35	0.40	4.31	20	15	UHP1C333KS035M
	39000	30*50	0.40	4.81	20	15	UHP1C393KR050M
35*40		0.40	4.81	20	15	UHP1C393KS040M	
47000	35*45	0.40	5.43	15	12	UHP1C473KS045M	
25 1E (35)	4700	22*25	0.30	1.60	120	80	UHP1E472KP025M
	6800	22*30	0.30	1.95	80	55	UHP1E682KP030M
		25*25	0.30	1.95	80	55	UHP1E682KQ025M
	8200	22*35	0.30	2.30	65	45	UHP1E822KP035M
		25*30	0.30	2.30	65	45	UHP1E822KQ030M
		30*25	0.30	2.30	65	45	UHP1E822KR025M
	10000	22*40	0.30	2.50	55	40	UHP1E103KP040M
		25*35	0.30	2.50	55	40	UHP1E103KQ035M
	12000	25*40	0.30	2.81	45	35	UHP1E123KQ040M
		30*30	0.30	2.81	45	35	UHP1E123KR030M
		35*25	0.30	2.81	45	35	UHP1E123KS025M
	15000	25*45	0.30	3.24	35	25	UHP1E153KQ045M
		30*35	0.30	3.24	35	25	UHP1E153KR035M
		35*30	0.30	3.24	35	25	UHP1E153KS030M
	18000	25*50	0.30	3.56	30	22	UHP1E183KQ050M
		30*40	0.30	3.56	30	22	UHP1E183KR040M
	22000	30*45	0.30	4.28	25	20	UHP1E223KR045M
		35*35	0.30	4.28	25	20	UHP1E223KS035M
	27000	35*45	0.30	4.80	20	15	UHP1E273KS045M
	33000	35*50	0.30	5.40	20	12	UHP1E333KS050M
35 1V (50)	3300	22*25	0.25	1.45	150	100	UHP1V332KP025M
	4700	25*25	0.25	1.87	100	70	UHP1V472KQ025M
		22*40	0.25	2.32	70	50	UHP1V682KP040M
	6800	25*35	0.25	2.32	70	50	UHP1V682KQ035M

◆ 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	2.94	50	35	UHP1V103KQ045M	
		30*35	0.25	2.94	50	35	UHP1V103KR035M	
	12000	25*50	0.25	3.47	40	30	UHP1V123KQ050M	
		35*30	0.25	3.47	40	30	UHP1V123KS030M	
	15000	30*45	0.25	3.75	35	25	UHP1V153KR045M	
		35*35	0.25	3.75	35	25	UHP1V153KS035M	
	18000	35*40	0.25	4.18	30	20	UHP1V183KS040M	
	22000	35*50	0.25	4.94	25	16	UHP1V223KS050M	
	50 1H (63)	1800	22*25	0.20	1.33	225	160	UHP1H182KP025M
		2200	22*30	0.20	1.46	185	130	UHP1H222KP030M
2700		25*25	0.20	1.72	150	110	UHP1H272KQ025M	
3300		22*35	0.20	1.93	125	90	UHP1H332KP035M	
		25*30	0.20	1.93	125	90	UHP1H332KQ030M	
3900		25*35	0.20	2.30	110	75	UHP1H392KQ035M	
		30*25	0.20	2.30	110	75	UHP1H392KR025M	
4700		30*30	0.20	2.68	90	60	UHP1H472KR030M	
		35*25	0.20	2.68	90	60	UHP1H472KS025M	
5600		22*50	0.20	2.96	80	50	UHP1H562KP050M	
		25*40	0.20	2.96	80	50	UHP1H562KQ040M	
		30*35	0.20	2.96	80	50	UHP1H562KR035M	
6800		30*40	0.20	3.40	60	45	UHP1H682KR040M	
		35*30	0.20	3.40	60	45	UHP1H682KS030M	
8200		30*45	0.20	3.72	50	35	UHP1H822KR045M	
		35*35	0.20	3.72	50	35	UHP1H822KS035M	
10000		30*50	0.20	4.10	42	30	UHP1H103KR050M	
		35*40	0.20	4.10	42	30	UHP1H103KS040M	
12000	35*45	0.20	4.58	35	25	UHP1H123KS045M		
63 1J (80)	1200	22*25	0.15	1.27	225	160	UHP1J122KP025M	
	1800	22*30	0.15	1.53	150	110	UHP1J182KP030M	
		25*25	0.15	1.53	150	110	UHP1J182KQ025M	
	2200	22*35	0.15	1.74	125	90	UHP1J222KP035M	
		25*30	0.15	1.74	125	90	UHP1J222KQ030M	
	2700	22*40	0.15	2.00	100	70	UHP1J272KP040M	
		25*35	0.15	2.00	100	70	UHP1J272KQ035M	
		30*25	0.15	2.00	100	70	UHP1J272KR025M	
	3300	25*40	0.15	2.42	80	60	UHP1J332KQ040M	
		30*30	0.15	2.42	80	60	UHP1J332KR030M	
		35*25	0.15	2.42	80	60	UHP1J332KS025M	
	3900	25*45	0.15	2.55	70	50	UHP1J392KQ045M	
		30*35	0.15	2.55	70	50	UHP1J392KR035M	
	4700	25*50	0.15	2.90	60	40	UHP1J472KQ050M	
		30*40	0.15	2.90	60	40	UHP1J472KR040M	
		35*30	0.15	2.90	60	40	UHP1J472KS030M	
	5600	30*45	0.15	3.29	50	35	UHP1J562KR045M	
		35*35	0.15	3.29	50	35	UHP1J562KS035M	
	6800	30*50	0.15	3.74	40	30	UHP1J682KR050M	
		35*40	0.15	3.74	40	30	UHP1J682KS040M	
8200	35*45	0.15	4.18	35	25	UHP1J822KS045M		
10000	35*50	0.15	4.70	30	20	UHP1J103KS050M		
80 1K (100)	1000	22*25	0.15	1.25	270	190	UHP1K102KP025M	
	1200	22*30	0.15	1.40	230	160	UHP1K122KP030M	
		25*25	0.15	1.40	230	160	UHP1K122KQ025M	
	1500	22*35	0.15	1.63	180	130	UHP1K152KP035M	
		25*30	0.15	1.63	180	130	UHP1K152KQ030M	
	1800	22*40	0.15	1.84	150	110	UHP1K182KP040M	
		30*25	0.15	1.84	150	110	UHP1K182KR025M	

◆ 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	2.18	125	90	UHP1K222KQ035M
		30*30	0.15	2.18	125	90	UHP1K222KR030M
		35*25	0.15	2.18	125	90	UHP1K222KS025M
	2700	25*45	0.15	2.44	100	70	UHP1K272KQ045M
		30*35	0.15	2.44	100	70	UHP1K272KR035M
	3300	25*50	0.15	2.79	80	60	UHP1K332KQ050M
		30*40	0.15	2.79	80	60	UHP1K332KR040M
		35*30	0.15	2.79	80	60	UHP1K332KS030M
	3900	30*45	0.15	3.12	70	50	UHP1K392KR045M
		35*35	0.15	3.12	70	50	UHP1K392KS035M
	4700	30*50	0.15	3.57	60	40	UHP1K472KR050M
		35*40	0.15	3.57	60	40	UHP1K472KS040M
5600	35*45	0.15	3.88	50	35	UHP1K562KS045M	
6800	35*50	0.15	4.20	40	30	UHP1K682KS050M	
100 2A (125)	560	22*25	0.15	1.08	480	340	UHP2A561KP025M
	820	22*30	0.15	1.36	330	230	UHP2A821KP030M
		25*25	0.15	1.36	330	230	UHP2A821KQ025M
	1000	22*35	0.15	1.56	270	190	UHP2A102KP035M
		25*30	0.15	1.56	270	190	UHP2A102KQ030M
	1200	22*40	0.15	1.76	230	160	UHP2A122KP040M
		25*35	0.15	1.76	230	160	UHP2A122KQ035M
		30*25	0.15	1.76	230	160	UHP2A122KR025M
	1500	25*40	0.15	2.08	180	130	UHP2A152KQ040M
		30*30	0.15	2.08	180	130	UHP2A152KR030M
		35*25	0.15	2.08	180	130	UHP2A152KS025M
	1800	25*45	0.15	2.29	150	110	UHP2A182KQ045M
		30*35	0.15	2.29	150	110	UHP2A182KR035M
	2200	25*50	0.15	2.70	125	85	UHP2A222KQ050M
		30*40	0.15	2.70	125	85	UHP2A222KR040M
		35*30	0.15	2.70	125	85	UHP2A222KS030M
	2700	30*45	0.15	2.95	100	70	UHP2A272KR045M
		35*35	0.15	2.95	100	70	UHP2A272KS035M
3300	30*50	0.15	3.33	80	60	UHP2A332KR050M	
	35*40	0.15	3.33	80	60	UHP2A332KS040M	
3900	35*45	0.15	3.70	70	50	UHP2A392KS045M	
4700	35*50	0.15	4.16	60	40	UHP2A472KS050M	
160 2C (200)	330	22*25	0.15	1.25	610	430	UHP2C331KP025M
	390	22*30	0.15	1.45	510	360	UHP2C391KP030M
	470	22*35	0.15	1.55	430	300	UHP2C471KP035M
		25*25	0.15	1.55	430	300	UHP2C471KQ025M
	560	22*40	0.15	1.74	355	250	UHP2C561KP040M
		25*30	0.15	1.74	355	250	UHP2C561KQ030M
	680	22*45	0.15	1.90	300	210	UHP2C681KP045M
		25*35	0.15	1.90	300	210	UHP2C681KQ035M
		30*25	0.15	1.90	300	210	UHP2C681KR025M
	820	25*40	0.15	2.10	245	170	UHP2C821KQ040M
		30*30	0.15	2.10	245	170	UHP2C821KR030M
	1000	25*45	0.15	2.50	200	140	UHP2C102KQ045M
		30*35	0.15	2.50	200	140	UHP2C102KR035M
	1200	25*50	0.15	2.95	170	120	UHP2C122KQ050M
		30*40	0.15	2.95	170	120	UHP2C122KR040M
		35*30	0.15	2.95	170	120	UHP2C122KS030M
	1500	30*45	0.15	3.20	135	95	UHP2C152KR045M
		35*35	0.15	3.20	135	95	UHP2C152KS035M
1800	35*45	0.15	3.62	120	80	UHP2C182KS045M	
2200	35*50	0.15	4.07	100	70	UHP2C222KS050M	

◆ 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	1.10	910	640	UHP2D221KP025M
	270	22*30	0.15	1.21	740	520	UHP2D271KP030M
		25*25	0.15	1.37	610	430	UHP2D331KQ025M
	390	22*35	0.15	1.42	510	360	UHP2D391KP035M
	470	22*40	0.15	1.58	425	300	UHP2D471KP040M
		25*30	0.15	1.58	425	300	UHP2D471KQ030M
		30*25	0.15	1.58	425	300	UHP2D471KR025M
	560	22*45	0.15	1.75	355	250	UHP2D561KP045M
		25*35	0.15	1.75	355	250	UHP2D561KQ035M
	680	22*50	0.15	1.94	300	210	UHP2D681KP050M
		25*40	0.15	1.94	300	210	UHP2D681KQ040M
		30*30	0.15	1.94	300	210	UHP2D681KR030M
	820	25*50	0.15	2.26	245	170	UHP2D821KQ050M
		30*35	0.15	2.26	245	170	UHP2D821KR035M
		35*30	0.15	2.26	245	170	UHP2D821KS030M
	1000	30*45	0.15	2.66	200	140	UHP2D102KR045M
		35*35	0.15	2.66	200	140	UHP2D102KS035M
	1200	30*50	0.15	3.05	170	120	UHP2D122KR050M
35*40		0.15	3.05	170	120	UHP2D122KS040M	
1500	35*45	0.15	3.45	140	100	UHP2D152KS045M	
1800	35*50	0.15	3.85	120	80	UHP2D182KS050M	
250 2E (300)	180	22*25	0.15	0.94	1110	780	UHP2E181KP025M
	220	22*30	0.15	1.11	910	640	UHP2E221KP030M
		25*25	0.15	1.11	910	640	UHP2E221KQ025M
	270	22*35	0.15	1.15	740	520	UHP2E271KP035M
	330	22*40	0.15	1.31	610	430	UHP2E331KP040M
		25*30	0.15	1.31	610	430	UHP2E331KQ030M
		30*25	0.15	1.31	610	430	UHP2E331KR025M
	390	22*45	0.15	1.50	510	360	UHP2E391KP045M
		25*35	0.15	1.50	510	360	UHP2E391KQ035M
	470	25*40	0.15	1.61	430	300	UHP2E471KQ040M
		30*30	0.15	1.61	430	300	UHP2E471KR030M
		35*25	0.15	1.61	430	300	UHP2E471KS025M
	560	25*45	0.15	1.87	360	250	UHP2E561KQ045M
		30*35	0.15	1.87	360	250	UHP2E561KR035M
		35*30	0.15	1.87	360	250	UHP2E561KS030M
	680	25*50	0.15	2.23	300	210	UHP2E681KQ050M
		30*40	0.15	2.23	300	210	UHP2E681KR040M
	820	30*45	0.15	2.35	245	170	UHP2E821KR045M
35*35		0.15	2.35	245	170	UHP2E821KS035M	
1000	30*50	0.15	2.70	200	140	UHP2E102KR050M	
	35*40	0.15	2.70	200	140	UHP2E102KS040M	
1200	35*45	0.15	3.05	170	120	UHP2E122KS045M	
1500	35*50	0.15	3.58	170	120	UHP2E152KS050M	
315 2F (365)	100	22*25	0.15	0.70	2000	1600	UHP2F101KP025M
	120	22*25	0.15	0.79	2000	1600	UHP2F121KP025M
	150	22*30	0.15	0.85	1330	1100	UHP2F151KP030M
		25*25	0.15	0.85	1330	1100	UHP2F151KQ025M
	180	22*35	0.15	0.95	1110	890	UHP2F181KP035M
		25*30	0.15	0.95	1110	890	UHP2F181KQ030M
	220	22*40	0.15	1.15	910	730	UHP2F221KP040M
		25*35	0.15	1.15	910	730	UHP2F221KQ035M
	270	22*45	0.15	1.32	740	600	UHP2F271KP045M
		25*40	0.15	1.32	740	600	UHP2F271KQ040M
		30*30	0.15	1.32	740	600	UHP2F271KR030M
		35*25	0.15	1.32	740	600	UHP2F271KS025M
330	25*45	0.15	1.43	610	490	UHP2F331KQ045M	
	30*35	0.15	1.43	610	490	UHP2F331KR035M	

◆ 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)	390	30*40	0.15	1.60	520	410	UHP2F391KR040M
		35*30	0.15	1.60	520	410	UHP2F391KS030M
	470	30*45	0.15	1.82	430	345	UHP2F471KR045M
		35*35	0.15	1.82	430	345	UHP2F471KS035M
	560	30*50	0.15	2.03	360	290	UHP2F561KR050M
		35*40	0.15	2.03	360	290	UHP2F561KS040M
680	35*45	0.15	2.35	300	240	UHP2F681KS045M	
350 2V (400)	82	22*30	0.15	0.60	2940	1620	UHP2V820KP030M
	100	25*25	0.15	0.70	1995	1100	UHP2V101KQ025M
	120	22*35	0.15	0.78	1660	920	UHP2V121KP035M
	150	22*40	0.15	0.85	1330	730	UHP2V151KP040M
	180	22*45	0.15	0.95	1110	610	UHP2V181KP045M
		25*35	0.15	0.95	1110	610	UHP2V181KQ035M
		30*30	0.15	0.95	1110	610	UHP2V181KR030M
	220	22*50	0.15	1.05	910	500	UHP2V221KP050M
		25*40	0.15	1.05	910	500	UHP2V221KQ040M
	270	25*50	0.15	1.25	740	410	UHP2V271KQ050M
		30*35	0.15	1.25	740	410	UHP2V271KR035M
		35*30	0.15	1.25	740	410	UHP2V271KS030M
	330	30*45	0.15	1.45	610	340	UHP2V331KR045M
		35*35	0.15	1.45	610	340	UHP2V331KS035M
	390	30*50	0.15	1.61	510	285	UHP2V391KR050M
		35*40	0.15	1.61	510	285	UHP2V391KS040M
470	35*45	0.15	1.85	425	240	UHP2V471KS045M	
560	35*50	0.15	2.08	355	200	UHP2V561KS050M	
400 2G (450)	68	22*25	0.15	0.50	2930	1525	UHP2G680KP025M
	82	25*25	0.15	0.65	2430	1265	UHP2G820KQ025M
	100	22*30	0.15	0.80	2000	1035	UHP2G101KP030M
	120	22*35	0.15	0.88	1660	865	UHP2G121KP035M
		25*30	0.15	0.88	1660	865	UHP2G121KQ030M
		30*25	0.15	0.88	1660	865	UHP2G121KR025M
	150	22*40	0.15	0.95	1330	690	UHP2G151KP040M
		25*35	0.15	0.95	1330	690	UHP2G151KQ035M
	180	25*40	0.15	1.05	1110	575	UHP2G181KQ040M
		30*30	0.15	1.05	1110	575	UHP2G181KR030M
		35*25	0.15	1.05	1110	575	UHP2G181KS025M
	220	25*45	0.15	1.15	910	475	UHP2G221KQ045M
		30*35	0.15	1.15	910	475	UHP2G221KR035M
	270	25*50	0.15	1.30	740	385	UHP2G271KQ050M
		30*40	0.15	1.30	740	385	UHP2G271KR040M
		35*30	0.15	1.30	740	385	UHP2G271KS030M
330	30*45	0.15	1.47	610	315	UHP2G331KR045M	
	35*35	0.15	1.47	610	315	UHP2G331KS035M	
390	30*50	0.15	1.65	510	265	UHP2G391KR050M	
	35*40	0.15	1.65	510	265	UHP2G391KS040M	
470	35*45	0.15	1.90	425	220	UHP2G471KS045M	
560	35*50	0.15	2.15	355	185	UHP2G561KS050M	
680	35*60	0.15	2.30	305	165	UHP2G681KS060M	
450 2W (500)	56	22*30	0.20	0.58	4740	2370	UHP2W560KP030M
	68	22*30	0.20	0.66	3910	1960	UHP2W680KP030M
		25*25	0.20	0.66	3910	1960	UHP2W680KQ025M
	82	22*35	0.20	0.85	3240	1620	UHP2W820KP035M
		25*30	0.20	0.85	3240	1620	UHP2W820KQ030M
	100	22*40	0.20	1.05	2655	1330	UHP2W101KP040M
25*30		0.20	1.05	2655	1330	UHP2W101KQ030M	
30*25		0.20	1.05	2655	1330	UHP2W101KR025M	

◆ 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)	120	22*45	0.20	1.13	2215	1110	UHP2W121KP045M
		25*35	0.20	1.13	2215	1110	UHP2W121KQ035M
	150	25*40	0.20	1.31	1770	885	UHP2W151KQ040M
		30*30	0.20	1.31	1770	885	UHP2W151KR030M
		35*25	0.20	1.31	1770	885	UHP2W151KS025M
	180	25*45	0.20	1.60	1475	740	UHP2W181KQ045M
		30*35	0.20	1.60	1475	740	UHP2W181KR035M
	220	25*50	0.20	1.75	1210	610	UHP2W221KQ050M
		30*40	0.20	1.75	1210	610	UHP2W221KR040M
		35*30	0.20	1.75	1210	610	UHP2W221KS030M
	270	30*45	0.20	1.90	990	500	UHP2W271KR045M
		35*35	0.20	1.90	990	500	UHP2W271KS035M
	330	30*50	0.20	2.20	810	410	UHP2W331KR050M
		35*40	0.20	2.20	810	410	UHP2W331KS040M
	390	35*45	0.20	2.48	685	340	UHP2W391KS045M
	470	35*50	0.20	2.76	565	290	UHP2W471KS050M
560	35*50	0.20	2.90	360	320	UHP2W561KS050M	

- 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.