

KM 系列 SERIES

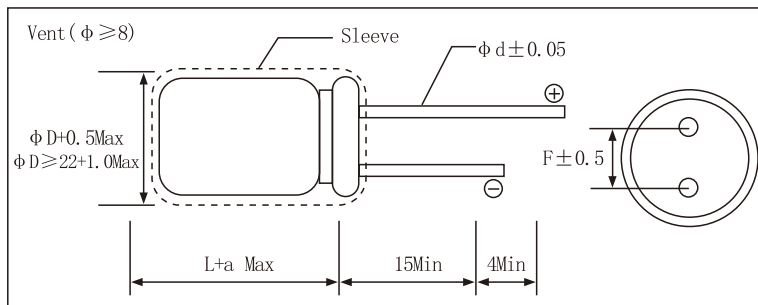
- 2000~3000hours at 105°C
- Solvent resistant type except 315to450
- RoHS Compliant

◆ SPECIFICATION



Items	Characteristics												
Operating Temperature Range(°C)	-40 ~ +105° C (6.3 ~ 100V), - 25 ~ +105° C (160 ~ 450V)												
Voltage range (V)	6.3~450V												
Capacitance Range (μ F)	0.1~22000uF												
Capacitance Tolerance	± 20% (at 20°C,120Hz)												
Leakage Current (μ A)	6.3 ~ 100V						160 ~ 450V						
	fter 2 minute's at 20°C application of rated voltage, leakage current is not more than 0.02CV or 4(μA), whichever is greater.						fter 5 minute's at 20°C application of rated voltage, leakage current is not more than 0.02CV+15 μ A						
Dissipation Factor(Tan δ)													
	WV(V)	6.3	10	16	25	35	50	63	100	160 ~ 250V	350 ~ 400V	450	
	Tan δ (max)	0.34	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.20	0.24	0.24	
	For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF. (at 20°C,120Hz)												
Low Temperature Characteristics													
	Rated Voltage (V)	6.3	10	16	25	35	50	63	100	160 ~ 250V	350 ~ 400V	450	
	Z-25°C/Z+20°C	5	4	3	2	2	2	2	2	3	6	6	
	Z-40°C/Z+20°C	12	10	8	5	4	3	3	3	4	6	-	
	(at 120Hz)												
Load Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated rippled current is applied for2000~3000hours												
	Capacitance change	Within ± 20%initial value									Case Dia.	life	
	D.F.(Tan δ)	Not more than 200% of specified value									ΦD≤8	2000	
	leakage current	Not more than specified value									ΦD>8	3000	
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them or 1,000 hours at 105°C without voltage applied .Before the measurement ,the capacitor shall be preconditionedf by applying voltage according to Item 4.1 of jis c 5101-4												
	Rated voltage	6.3 to 100V							160 to 450V				
	Capacitance change	Within ± 25%initial value							Within ± 20%initial value				
	D.F.(Tan δ)	Not more than 200% of specified value							Not more than 200% of specified value				
	leakage current	Not more than 200% of specified value							Not more than 200% of specified value				

◆ DIMENSIONS(mm)



ΦD	5	6.3	8	10	13	16	18
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
Φd	0.5	0.5	0.5	0.6	0.6	0.8	0.8
a	1.5	1.5	1.5	1.5	1.5	2.0	2.0

◆ FREQUENCY COEFFICIENT

Frequency Rated Voltage(μ F)	50Hz	120Hz	300Hz	1KHz	10KHz	100KHz
0.1~4.7	0.65	1.00	1.35	1.75	2.30	2.50
10~47	0.75	1.00	1.25	1.50	1.75	1.80
100~1000	0.80	1.00	1.15	1.30	1.40	1.50
2200~	0.85	1.00	1.03	1.05	1.08	1.08

◆ STANDARD RATINGS

UR (Surge Voltage) Code	Rated Capacitance	Rated Ripple Current 105°C 120Hz	Size $\phi D \times L$
(V)	(μF)	(mA rms)	(mm)
6.3 (8)	33	54	5 × 11
	47	64	5 × 11
	100	94	5 × 11
	220	140	5 × 11
	330	190	6.3 × 12
	470	230	6.3 × 12
	1000	380	8 × 12
	2200	710	10 × 20
	3300	840	10 × 20
	4700	1090	13 × 20
	6800	1350	13 × 25
	10000	1650	16 × 25
	15000	2010	16 × 35.5
	22000	2350	18 × 40
10 (13)	22	46	5 × 11
	33	57	5 × 11
	47	68	5 × 11
	100	100	5 × 11
	220	170	6.3 × 12
	330	200	6.3 × 12
	470	250	8 × 12
	1000	460	10 × 12.5
	2200	760	10 × 20
	3300	1000	13 × 20
	4700	1260	13 × 25
	6800	1570	16 × 25
	10000	1890	16 × 35.5
	15000	2180	18 × 35.5
16 (20)	10	34	5 × 11
	22	51	5 × 11
	33	63	5 × 11
	47	75	5 × 11
	100	110	5 × 11
	220	180	6.3 × 12
	330	260	8 × 12
	470	310	8 × 12
	1000	560	10 × 16
	2200	920	13 × 20
	3300	1170	13 × 25
	4700	1480	16 × 25
	6800	1780	16 × 31.5
	10000	2060	18 × 35.5
25 (32)	4.7	25	5 × 11
	10	36	5 × 11
	22	54	5 × 11
	33	67	5 × 11
	47	80	5 × 11
	100	130	6.3 × 12
	220	230	8 × 12
	330	310	8 × 12
	470	380	10 × 12.5
	1000	680	10 × 20
	2200	1090	13 × 25
	3300	1400	16 × 25
	4700	1710	16 × 31.5
	6800	2040	18 × 35.5

UR (Surge Voltage) Code	Rated Capacitance	Rated Ripple Current 105°C 120Hz	Size $\phi D \times L$
(V)	(μF)	(mA rms)	(mm)
35 (44)	4.7	28	5 × 11
	10	41	5 × 11
	22	61	5 × 11
	33	75	5 × 11
	47	90	5 × 11
	100	150	6.3 × 12
	220	270	8 × 12
	330	350	10 × 12.5
	470	460	10 × 16
	1000	810	13 × 20
	2200	1260	16 × 25
	3300	1610	16 × 35.5
	4700	1910	18 × 35.5
50 (63)	0.1	1.3	5 × 11
	0.22	2.9	5 × 11
	0.33	4.3	5 × 11
	0.47	6.2	5 × 11
	1	13	5 × 11
	2.2	20	5 × 11
	3.3	25	5 × 11
	4.7	30	5 × 11
	10	40	5 × 11
	22	65	5 × 11
	33	90	5 × 11
	47	110	6.3 × 12
	100	180	8 × 12
	220	300	10 × 12.5
63 (79)	330	410	10 × 16
	470	530	10 × 20
	1000	950	13 × 25
	2200	1470	16 × 35.5
	3300	1770	18 × 35.5
	10	46	5 × 11
	22	71	5 × 11
	33	100	6.3 × 12
	47	120	6.3 × 12
	100	215	10 × 12.5
	220	335	10 × 16
	330	510	10 × 20
	470	640	13 × 20
	1000	930	16 × 25
100 (125)	0.1	1.5	5 × 11
	0.22	3.4	5 × 11
	0.33	5.0	5 × 11
	0.47	7.1	5 × 11
	1	15	5 × 11
	2.2	21	5 × 11
	3.3	29	5 × 11
	4.7	32	5 × 11
	10	54	6.3 × 12
	22	93	8 × 12
	33	130	8 × 12
	47	165	10 × 12.5
	100	265	10 × 20
	220	440	13 × 25
	330	540	16 × 25
	470	715	16 × 31.5
	1000	985	18 × 40

◆ STANDARD RATINGS

UR (Surge Voltage) Code	Rated Capacitance	Rated Ripple Current 105°C 120Hz	Size $\phi D \times L$
(V)	(μF)	(mA rms)	(mm)
160 (200)	3.3	28	6.3 × 12
	4.7	34	6.3 × 12
	10	67	10 × 12.5
	22	120	10 × 20
	33	145	10 × 20
	47	195	13 × 20
	100	335	16 × 25
	220	540	16 × 31.5
	330	705	18 × 35.5
200 (250)	3.3	28	6.3 × 12
	4.7	39	8 × 12
	10	74	10 × 16
	22	120	10 × 20
	33	160	13 × 20
	47	195	13 × 20
	100	335	16 × 25
	220	575	18 × 35.5
250 (300)	2.2	23	6.3 × 12
	3.3	32	8 × 12
	4.7	39	8 × 12
	10	74	10 × 16
	22	130	13 × 20
	33	160	13 × 20
	47	210	13 × 25
	100	365	16 × 31.5
	220	585	18 × 40

UR (Surge Voltage) Code	Rated ACapacitance	Rated Ripple Current 105°C 120Hz	Size $\phi D \times L$
(V)	(μF)	(mA rms)	(mm)
350 (400)	0.47	11	6.3 × 12
	1	15	6.3 × 12
	2.2	26	8 × 12
	3.3	38	10 × 12.5
	4.7	50	10 × 16
	10	80	10 × 20
	22	130	13 × 20
	33	195	16 × 25
	47	230	16 × 25
	100	375	18 × 31.5
400 (450)	1	15	6.3 × 12
	2.2	26	8 × 12
	3.3	38	10 × 12.5
	4.7	50	10 × 16
	10	80	10 × 20
	22	145	13 × 25
	33	195	16 × 25
	47	250	16 × 31.5
	100	350	16 × 40
	120	550	18 × 40
450 (500)	2.2	23	10 × 12.5
	3.3	31	10 × 16
	4.7	40	10 × 20
	10	65	13 × 20
	22	115	16 × 25
	33	155	16 × 31.5
	47	185	16 × 35.5
	68	205	18 × 36

Customer products are available on request