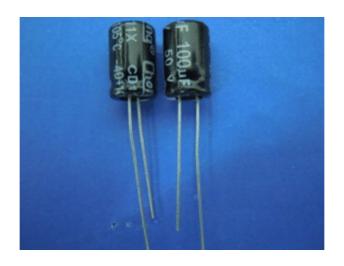
50V 100uF 8X12



KM Series

+105°C, General (普通品)

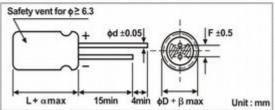
FEATURES

- 1. Rated working voltage range 6.3 to 100V DC/160 to 450V DC at operation temperature range -40 to +105°C/-25 to +105°C.
- 2. This series is for communication equipments, switching power supply, industrial measuring instruments, automotive electric products, etc.



SPECIFICATIONS										
Item	Performance Charact	esistics								
Operating Temperature Range	-40 to +105°C				-25 to +105°C					
Reted Working Voltage Range	6.3 to 100V				160 to 450	V				
Nominal Capacitance Range	0.1 to 33000μF									
Capacitance Tolerance	±20% (120Hz, +20°C)									
Leakage Current	ı ≤ 0.01CV or 3(μA)wh after 2 minutes applica	I ≤ 0.03CV 0°C	+40(μA)							
tan δ (120Hz, +20°C)	Working Voltage (V)	6.3	10	16	25	35	50	63	100	
	tan δ (max.)	0.26	0.22	0.18	0.16	0.14	0.12	0.10	0.08	
	Working Voltage (V)	160	200	250	250	350	400	420	450	
	tan δ (max.)	0.20	0.20	0.20	0.20	0.24	0.24	0.24	0.24	
	For capacitance value > 1000 μF, add 0.02 per another 1000 μF									
Low Temperature Characteristics	Impedance ratio max. at 120Hz									
	Working Voltage (V)	6.3	10	16	25	35	50	63	100	
	Z-25°C / Z+20°C	5	4	3	2	2	2	2	2	
	Z-40°C / Z+20°C	10	8	6	4	3	3	3	3	
	Working Voltage (V)	160	200	220	250	350	400	420	450	
	Z-25°C / Z+20°C	3	3	3	4	4	6	6	15	
	For capacitance value > 1000 μF, Add 0.5 per another 1000 μF for Z-25°C / Z+20°C Add 1.0 per another 1000 μF for Z-40°C / Z+20°C									
High Temperature Loading	Test conditions Post test requirements at +20°C									
	Duration :	≤ 6.3 ≥ 8		Lea	eakage current : ≤ Initial specified value					
	Load life 1000h 2000h Cap. change : within ±20% of initial measured val							alue		
	Ambient temp. :+105°C tan δ :≤200% of initial specified value									
	Applied voltage : DC voltage with maximum permissible ripple current specified at +105°C									
	(Sum of the DC voltage and super-imposed peak AC voltage for maximum permissible ripple current should be equal to reted DC working voltage).									
Shelf Life	Test conditions Post test requirements at +20°C									
	Duration : 1000		Same limits for high temperature loading.							
	Ambient temp. : +105	°C								
	Applied voltage : (Nor	ne)								
Others	JIS C - 5101 (IES 60	384)								

CASE SIZE TABLE



φD	5	6.3	8	10	12.5	16	18	22	25		
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10.0	10.0		
φd	0.5			0	.6	0.8					
α		(L < 20) 1.5				(L≥ 20) 2.0					
β	(D < 20) 0.5			.5	(0	≥ 20) 1	.0				

KM Series

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STANDARD RATINGS 6.3V (OJ) 16V (1C) 25V (1E) Voltage (Code) 10V (1A) Cap.(µF) Code Case Size Ripple Current Case Size Ripple Current Case Size Ripple Current Case Size Ripple Current 0.1 104 154 0.15 0.22 224 0.33 334 0.47 474 105 1 2.2 225 3.3 335 4.7 475 5 x 11 10 106 5 x 11 35 5 x 11 38 22 226 5 x 11 49 5 x 11 54 5 x 11 57 33 336 5 x 11 54 5 x 11 60 5 x 11 65 5 x 11 75 47 476 5 x 11 65 5 x 11 70 5 x 11 80 5 x 11 84 68 686 5 x 11 70 5 x 11 75 5 x 11 90 5 x 11 92 100 107 5 x 11 95 5 x 11 105 5 x 11 125 6.3 x 11 159 220 227 5 x 11 153 5 x 11 170 6.3 x 11 213 8 x 12 285 6.3 x 11 216 6.3 x 11 330 337 239 8 x 12 340 8 x 12 315 470 477 6.3 x 11 258 6.3 x 11 285 8 x 12 366 10 x 12.5 471 365 687 8 x 12 8 x 12 408 10 x 12.5 480 10 x 16 680 620 1000 108 8 x 12 443 10 x 12.5 571 10 x 16 680 10 x 20 821 10 x16 10 x 20 2200 228 740 886 12.5 x 20 1108 12.5 x 20 1176 3300 338 10 x 20 1032 12.5 x 20 1205 12.5 x 25 1389 16 x 25 1646 4700 478 12.5 x 20 1280 12.5 x 25 1492 16 x 25 1740 16 x 30 2012 6800 688 12.5 x 25 1554 16 x 25 1824 16 x 30 2081 16 x 35 2308 1897 10000 109 16 x 25 16 x 30 1980 16 x 35 2379 18 x 35 2500 15000 159 16 x 30 2188 16 x 40 2180 18 x 35 2600 22000 229 18 x 35 2400 18 x 40 2407 33000 2555 339 18 x 40

Maximum Allowable Ripple Current (mA rms) at 105°C 120Hz

Case Size $\phi D \times L(mm)$

Voltag	e (Code)	35\	/ (1V)	50V (1H)		631	/ (1J)	100V (2A)		
Cap.(µF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Curren	
0.1	104			5 x 11	1					
0.15	154	1		5 x 11	1.5					
0.22	224			5 x 11	3					
0.33	334			5 x 11	4			V		
0.47	474			5 x 11	7			5 x 11	10	
1	105	3		5 x 11	13			5 x 11	16	
2.2	225			5 x 11	20			5 x 11	23	
3.3	335			5 x 11	30			5 x 11	34	
4.7	475	5 x 11	28	5 x 11	37	5 x 11	40	5 x 11	40	
10	106	5 x 11	41	5 x 11	54	5 x 11	59	6.3 x 11	61	
22	226	5 x 11	67	5 x 11	79	5 x 11	79	6.3 x 11	92	
33	336	5 x 11	80	5 x 11	101	6.3 x 11	122	8 x 12	144	
47	476	5 x 11	101	6.3 x 11	133	6.3 x 11	146	10 x 12.5	199	
68	686					8 x 12	155	10 x 16	240	
100	107	6.3 x 11	168	8 x 12	229	10 x 12.5	251	10 x 20	349	
220	227	8 x 12	294	10 x 16	509	10 x 20	504	12.5 x 25	622	
330	337	10 x 12.5	419	10 x 16	589	12.5 x 20	688	12.5 x 25	800	
470	477	10 x 16	547	10 x 20	707	12.5 x 20	810	16 x 25	990	
680	687	10 x 20	682	12.5 x 20	923	12.5 x 25	1160	16 x 30	1289	
1000	108	12.5 x 20	1023	12.5 x 25	1287	16 x 25	1448	18 x 35	2020	
2200	228	16 x 25	1497	16 x 35	1884	18 x 35	1781			
3300	338	16 x 30	1808	18 x 35	2167					
4700	478	18 x 35	2335		7 8					
6800	688	18 x 40	2400							

Maximum Allowable Ripple Current (mA rms) at 105°C 120Hz

Case Size ¢D x L(mm)

KM Series

+105°C, General (普通品)

STANDARD RATINGS

Voltag	e (Code)	160	V (2C)	200V (2D)		220	V (2N)	250V (2E)		
Cap.(µF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Curren	
0.47	474							6.3 x 11	8	
1	105							6.3 x 11	17	
2.2	225							6.3 x 11	27	
3.3	335			6.3 x 11	30	6.3 x 11	30	6.3 x 11	35	
4.7	475	6.3 x 11	41	6.3 x 11	40	8 x 12	40	8 x 12	45	
10	106	8 x 12	60	10 x 12.5	72	10 x 12.5	70	10 x 12.5	75	
22	226	10 x 16	110	10 x 16	113	10 x 20	125	10 x 20	130	
33	336	10 x 20	156	10 x 20	165	12.5 x 20	165	12.5 x 20	184	
47	476	10 x 20	195	10 x 20	194	12.5 x 20	220	12.5 x 25	238	
68	686	12.5 x 20	250	12.5 x 25	250	12.5 x 25	245	16 x 20	246	
82	826	12.5 x 25	310	10 x 30	320	12.5 x 30	280	16 x 25	351	
100	107	12.5 x 25	360	16 x 25	386	16 x 25	335	16 x 25	390	
150	157	12.5 x 30	380	16 x 25	525	16 x 30	365	16 x 30	440	
180	187	12.5 x 35	420	12.5 x 35	560	16 x 35	500	16 x 35	469	
220	227	16 x 30	680	16 x 30	643	16 x 40	615	16 x 35	485	
270	277	16 x 30	728	18 x 30	740					
330	337	18 x 35	830	18x 30	808					
390	397	18 x 35	850	18 x 35	904					
470	477	18 x 40	880	18 x 40	1016					
560	567	18 x 45	925	18 x 45	1112					

Maximum Allowable Ripple Current (mA rms) at 105°C 120Hz

Case Size $\phi D \times L(mm)$

Voltag	e (Code)	350	V (2V)	400V (2G)		420	V (2M)	450V (2W)		
Cap.(µF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Currer	
0.47	474	6.3 x 11	8							
1	105	6.3 x 11	18	6.3 x 11	19	6.3 x 11	15	6.3 x 11	16	
2.2	225	6.3 x 11	25	8 x 12	30	8 x 12	29	8 x 12	24	
3.3	335	8 x 12	40	8 x 12	35	8 x 12	35	8 x 12	29	
4.7	475	8 x 12	43	8 x 12	40	10 x 16	52	10 x 16	42	
10	106	10 x 16	73	10 x 16	78	10 x 20	85	12.5 x 25	84	
18	186	12.5 x 20	100	12.5 x 20	105	12.5 x 25	124	10 x 30	108	
22	226	12.5 x 20	150	12.5 x 20	148	12.5 x 25	140	12.5 x 25	131	
27	276	12.5 x 25	177	10 x 30	192	12.5 x 25	170	12.5 x 30	164	
33	386	12.5 x 25	200	12.5 x 25	193	16 x 25	200	16 x 25	237	
39	396	12.5 x 25	258	16 x 25	251	12.5 x 30	248	12.5 x 35	256	
47	476	12.5 x 25	265	12.5 x 30	266	12.5 x 35	288	16 x 30	305	
56	566	16 x 30	280	12.5 x 35	336	12.5 x 40	344	16 x 30	352	
68	686	16 x 30	288	16 x 30	396	16 x 30	408	18 x 30	366	
82	826	18 x 30	372	18 x 30	443	16 x 35	456	18 x 30	440	
100	107	18 x 35	460	18 x 30	489	18 x 35	488	18 x 35	490	
120	127			18 x 35	570	18 x 40	528	18 x 40	592	
150	157			18 x 40	616	18 x 45	568	18 x 45	640	
180	187			18 x 50	704					

Maximum Allowable Ripple Current (mA rms) at 105°C 120Hz

Case Size ¢D x L(mm)

RIPPLE CURRENT MULTIPLIER

Frequency Co	efficient					
Rated Voltage(V)	Cap.(.F) Coescient (Hz)	50	120	300	1k	10k~
6.3 ~ 100	~47	0.75	1.00	1.35	1.57	2.00
	68~470	0.80	1.00	1.23	1.34	1.50
	≥ 560	0.85	1.00	1.10	1.13	1.15
160 ~ 450	0.47 ~ 220	0.80	1.00	1.25	1.40	1.60
	≥ 270	0.90	1.00	1.10	1.13	1.15