

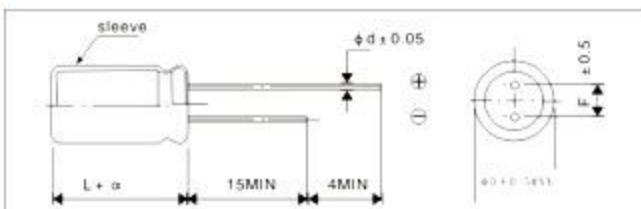
# KM series 105°C TYPE

- Load life of 2000 hours at 105°C
- Has characteristics of withstanding high temperature 105°C and good reliability
- Suitable for communication equipment and industrial measurement instruments.

## SPECIFICATIONS

Item	Performance Characteristics										
	Operating Temperature Range	-40°C~+105°C	-40°C~+105°C	-25°C~+105°C							
Rated Voltage Range	6.3-100W.V.	160-250W.V.	350-500W.V.								
Capacitance Range	0.47-4700 $\mu$ F	0.47-470 $\mu$ F									
Capacitance Tolerance	$\pm 20\%$ , (M) at 120Hz, 25°C										
Leakage Current (MAX)	Rated Voltage(V)	6.3-100	160-500								
	LC ( $\mu$ A)	<ul style="list-style-type: none"> <li>After 1 minutes application of rated voltage, leakage current is not more than 0.03CV or 4 <math>\mu</math>A, whichever is greater.</li> <li>After 2 minutes application of rated voltage, leakage current is not more than 0.01CV or 3 <math>\mu</math>A, whichever is greater.</li> </ul>	<ul style="list-style-type: none"> <li>After 1 minute's application of rated voltage, CV-1000:1 <math>\leq</math> 0.01CV+40 <math>\mu</math>A CV&gt;1000:1 <math>\leq</math> 0.04CV+100 (<math>\mu</math>A)</li> </ul>								
Dissipation Factor (tan $\delta$ )	For capacitance of more than 1000 $\mu$ F, add 0.02 for every increase of 1000 $\mu$ F, Measurement frequency:120Hz, Temperature:25°C										
	Rated voltage (V)	6.3	10	16	25	35	50	63	100	160-250	350-500
Tan $\delta$ (MAX)	0.26	0.22	0.18	0.16	0.14	0.12	0.10	0.08	0.20	0.25	
Low Temperature Stability Impedance Ratio	Measurement frequency:120Hz										
	Rated Voltage(V)	6.3	10	16	25-100	160-200	250-315	350-400	450-500		
	Impedance ratio ZT/Z20(MAX)	Z(-25°C)/Z(+20°C)	4	3	3	2	3	4	6	15	
		Z(-40°C)/Z(+20°C)	8	6	6	4	4	8			
Load Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for 2,000hours at 105°C.										
	Leakage Current	Specified value or less									
	Capacitance Change	Within $\pm 20\%$ of initial value									
	tan $\delta$	200% or less of specified value									
Shelf Life	After leaving capacitors under no load at 105°C for 1000 hours and applying voltage according to JIS C-5102 4-3, they meet the specified value for load life characteristics listed above.										
Standard	According to JIS C 5141										

## DIMENSIONS (mm)



$\Phi$ D	5	6.3	8	10	12.5	16	18
$\Phi$ d	0.5	0.5	0.6	0.6	0.6	0.8	0.8
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
$\alpha$	L $\leq$ 16: $\alpha = 1.5$ , L $\geq$ 20: $\alpha = 2.0$						

# STANDARD SIZES AND PERMISSIBLE RIPPLE CURRENT

W.V. Cap(μ F)	6.3		10		16		25		35		50		63	
0.1											5x11	5	5x11	5
0.22											5x11	6		
0.33											5x11	8		
0.47											5x11	8		
1					5x11	9	5x11	11			5x11	12		
2.2					5x11	13	5x11	20			5x11	20	5x11	20
3.3					5x11	17	5x11	20	5x11	23	5x11	25		
4.7					5x11	24	5x11	26	5x11	24	5x11	30	5x11	32
6.8									5x11	33	5x11	38	5x11	36
10					5x11	35	5x11	39	5x11	43	5x11	45	5x11	41
													6.3x11	50
22			5x11	50	5x11	60	5x11	65	5x11	67	5x11	68	6.3x11	85
									6.3x11	75	6.3x11	70	8x12	90
33					5x11	65	5x11	70	5x11	82	5x11	75	6.3x12	102
									6.3x11	80	6.3x11	90	8x12	120
47	5x11	65	5x11	70	5x11	75	5x11	82	5x11	105	6.3x12	115	6.3x12	120
					6.3x11	85	6.3x11	100	6.3x11	110	8x12	125	8x12	135
68			5x11	80	6.3x11	105	6.3x11	110	6.3x11	132	8x12	162	8x14	170
									8x12	135				
82								6.3x11	120			8x12	170	
100	5x11	98	5x11	95	5x11	125	6.3x12	145	6.3x12	150	8x12	180	8x20	198
	6.3x11	110	6.3x11	120	6.3x11	130	8x12	160	8x12	175	10x16	195	10x13	205
									10x13	190			10x20	240
150	5x11	123	6.3x11	140	6.3x11	175	6.3x11	200	10x13	260	10x13	270	10x16	290
					8x12	180	8x12	210						
220	6.3x11	150	5x11	150	6.3x12	200	8x12	230	8x12	240	8x20	305	10x16	350
	8x12	190	6.3x11	170	8x12	220	10x13	260	8x14	280	10x16	340	10x20	370
			8x12	200	10x13	240	10x16	290	10x13	295	10x20	370	13x21	390
									8x16	260				
330	6.3x11	200	6.3x11	203	8x12	240	8x12	315	8x20	265	10x16	360	13x21	510
	8x12	225	8x12	235	10x13	290	10x13	330	10x13	340	10x20	440	13x25	530
	10x13	250	10x13	270	10x16	320	10x13	330	10x15	360	12.5x16	470		
									10x16	380				
470	6.3x11	225	6.3x11	210	8x12	330	8x14	350	10x16	460	10x20	465	16x21	550
	8x12	250	8x12	275	8x16	365	8x20	380	10x20	480	10x25	490	13x25	660
	10x13	300	10x16	350	10x13	382	10x13	400	10x30	525	13x21	600	16x31	700
							10x16	430	13x21	570	16x18	570		
560							10x20	450						
680	8x14	330	8x14	380	8x12	415	10x16	490	10x20	560	13x21	745	16x25	900
					8x14	440	10x20	560	10x25	592	13x25	793		
					10x13	480			13x21	705				
1000	8x12	420	8x12	470	8x25	595	10x20	720	13x21	730	13x25	840	16x31	1040
	10x20	540	8x14	490	8x20	580	13x21	780	13x25	750	16x25	935	18x35	1100
			8x16	500	10x16	590			16x35	880				
			10x13	510	10x20	600								
			10x16	530										
1500	10x16	565	10x16	585	10x20	685	13x21	844	16x25	1027	16x27	1100		
					13x21	740	13x25	857			16x31	1185		
2200	10x20	607	10x20	660	10x25	750	13x25	885	13x30	1050	16x35	1345		
	10x25	650	10x25	670	13x21	780	13x21	880	16x25	1150	18x31	1325	18x36	1500
	13x21	725	13x21	775	16x25	810	16x25	1050	16x31	1175	18x36	1395		
									18x35	1470				
2500							13x30	995						
3300	13x21	920	10x30	840	13x21	900	16x21	1050	16x31	1280				
	13x25	930	13x21	980	13x25	950	16x25	1110	16x35	1490				
					16x25	1020	16x32	1170	18x31	1450				
3500							16x25	1200	18x35	1510				
3700							16x25	1260						
4700	13x21	948	13x25	1035	16x31	1230	16x31	1210	18x36	1560	22x36	1850	22x42	2210
	13x25	965	16x25	1080	16x25	1100	16x35	1335	18x41	1660				
	13x30	1000	18x35	1190			18x35	1420						

※ The biggest physical volume mentioned above is a standard size. The others are the products with reduced physical volume, and their lives are shortened correspondingly.