

KMY series

Features

- ◆ Used in electronic ballast, switching power supply, industrial measuring Instruments.
- ◆ Higher ripple current
- ◆ Load life 5000~10000 Hrs at 105°C
- ◆ Safety vent construction design.
- ◆ For detail specifications, please refer to Engineering Bulletin No.E142
- ◆ RoHS Compliant



Specifications

Item	Performance Characteristics																																			
Operating Temperature Range	-40~+105°C	-25~+105°C																																		
Rate Voltage Range	10~50VDC	160~450VDC																																		
Capacitance Range	6.8~3300uf	6.8~220uf																																		
Capacitance Tolerance	±20% (120Hz, +20°C)																																			
Leakage current (+20°C,max.)	≤0.01CV 或 3 (µA)	≤0.04CV+100 (µA)																																		
	After 1 minute with rated working voltage applied. I=Leakage Current(µA) C=Rated capacitance(µA) V=Rated Voltage (V)																																			
Dissipation factor (tgδ)	<table border="1"> <thead> <tr> <th>Working Voltage(VDC)</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>160</th> <th>200</th> <th>250</th> <th>350</th> <th>400</th> <th>450</th> </tr> </thead> <tbody> <tr> <td>D.F.(%)max</td> <td>19</td> <td>16</td> <td>14</td> <td>12</td> <td>10</td> <td>15</td> <td>15</td> <td>15</td> <td>20</td> <td>20</td> <td>20</td> </tr> </tbody> </table>												Working Voltage(VDC)	10	16	25	35	50	160	200	250	350	400	450	D.F.(%)max	19	16	14	12	10	15	15	15	20	20	20
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Low Temperature Characteristics (120Hz)	Impedance ratio max.																																			
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	≤8Φ	2000																																		
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	Duration time : as right																																			
Ambient temperature : +130°C																																				
Applied voltage : Rated DC working voltage																																				
After test requirement at +20°C																																				
Capacitance change : ≤±20% of the initial measured value																																				
Dissipation factor : ≤300% of the initial specified value																																				
Leakage current : ≤The initial specified value																																				
Shelf Life	Test conditions																																			
	Duration time : 1000Hrs																																			
	Ambient temperature : +130°C																																			
	Applied voltage : None																																			
	After test requirement at +20°C : Same limits as Load life.																																			
Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes																																				

Multiplier for Ripple Current vs. Frequency

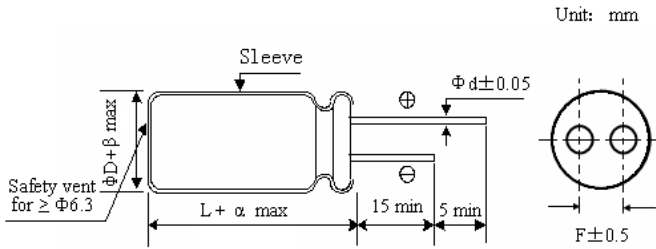
Frequency (Hz)	120	1K	10K	≥100K
Multiplier	0.50	0.80	0.85	1.0

Multiplier for Ripple Current vs. Temperature

Temperature °C	≤60	85	105
Multiplier	2.0	1.4	1.0

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Diagram of Dimensions



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		0.6		0.8		

a	D<18	D=18		D>18
		L<35.5	L≥35.5	
	1.5	1.5	2.0	2.0

Case Size

Voltage	10V		16V		25V		35V		50V	
	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
6.8									5×11	75
10							5×11	65	5×11	97
22					5×11	100	5×11	125	6.3×12	130
33			5×11	115	5×11	130	6.3×12	178	8×12	241
47	5×11	100	5×11	145	6.3×12	160	8×12	240	8×12	287
									10×13	300
68	5×11	130	6.3×12	200	8×12	230	8×12	270	10×13	356
100	6.3×12	190	8×12	245	8×12	327	10×13	390	10×16	500
150	6.3×12	220	8×12	300	10×13	460	10×16	632	10×20	747
220	6.3×12	270	8×12	420	10×16	580	10×20	760	13×21	977
			10×13	495						
330	8×12	390	8×16	500	10×20	805	13×21	1035	13×25	1150
470	10×13	540	10×16	730	10×20	950	13×25	1100	16×25	1552
1000	10×16	900	13×21	1173	13×25	1552	16×32	1932	18×32	2093
2200	13×21	1540	16×25	2093	16×32	2400				
3300	16×25	1900								

Voltage	160V		200V		250V		350V		400V		450V	
	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current		Ripple Current			Case Size	Ripple Current
6.8							10×20	270	10×20	270	13×21	240
10	10×16	280	10×20	310	10×20	320	13×21	350	13×21	350	13×25	430
22	10×20	450	10×20	470	13×21	490	13×25	600	16×25	690	16×25	710
33	13×21	610	13×21	620	13×25	750	16×21	820	18×21	870	18×25	950
47	13×21	680	13×21	910	16×21	930	18×21	1020	18×25	1130	18×32	1120
68	13×25	1100	16×25	1190	18×21	1300	18×25	1400	18×32	1460		
100	18×21	1310	18×21	1380	18×25	1500						
150	18×25	1780	18×25	1800	18×32	1870						
220	18×25	2290	18×32	2350								

Ripple Current (mA,rms) at 130°C 120KHz