KMY series

Features

- Used in electronic ballast, switching power supply, industrial measuring Instruments.
- Higher ripple current
- Load life 5000~10000 Hrs at 105℃
- 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℃	-25~+105℃
Rate Voltage Range	10~50VDC	160~450VDC
Capacitance Range	6.8~3300uf	6.8~220uf
Capacitance Tolerance	±20%（120Hz，+20℃）	
Leakage current （+20℃,max.）	I≤0.01CV 或 3（μA）	I≤0.04CV+100（μA）
	After 1 minute with rated working voltage applied. l=Leakage Current(μA) C=Rated capacitance(μA) V=Rated Voltage (V)	

Dissipation factor （tgδ）

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

Low Temperature Characteristics （120Hz）

Impedance ratio max.

Working Voltage(VDC)	10	16	25	35	50
Z-25℃/ Z+20℃	3	2	2	2	2
Z-40℃/ Z+20℃	4	4	4	4	4

Load Life

Test conditions
Duration time : as right
Ambient temperature : +130℃
Applied voltage : Rated DC working voltage
After test requirement at +20℃
Capacitance change : ≤±20% of the initial measured value
Dissipation factor : ≤300% of the initial specified value
Leakage current : ≤The initial specified value

DΦ	Life hours
≤8Φ	2000
≥10Φ	3000

Shelf Life

Test conditions
Duration time : 1000Hrs
Ambient temperature : +130℃
Applied voltage : None
After test requirement at +20℃ : 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℃	≤60	85	105
Multiplier	2.0	1.4	1.0

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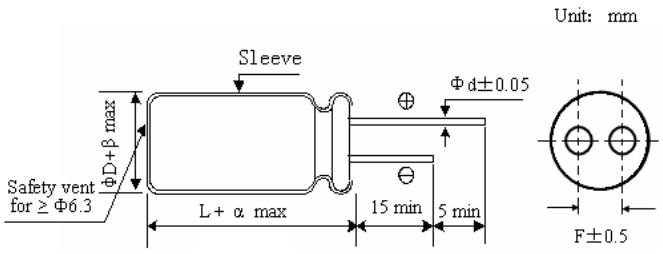
Diagram of Dimensions



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

ΦD×L

Voltage	10V		16V		25V		35V		50V	
Cap(μF)	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	
Cap(μF)	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℃ 120KHz