

LEK Series 105°C LOW ESR 製品系列

Features

- Used in mother board, computer peripheral, etc.
- Load life 2000 Hrs at 105°C
- Safety vent construction design.



Specifications

Item	Performance Characteristics								
Operating Temperature Range	-40 to +105°C								
Rated voltage Range	6.3 to 100 VDC								
Capacitance Range	4.7 to 4700 uF								
Capacitance Tolerance	±20%(120Hz, +20°C)								
Leakage Current(+20°C, max.)	1 ≤ 0.01 CV or 3 (uA) After 2 minutes whichever is greater measured with rated working voltage applied.								
Dissipation Factor(tanδ)	Working Voltage (VDC)	6.3	10	16	25	35	50	63	100
	D.F.(%)max	22	19	16	14	12	10	9	8
	For capacitance>1000uF, add 2% per another 1000uF in crease .(+20°C, at 120Hz)								
Low Temperature Characteristics (120Hz)	Impedance ratio max.								
	Working Voltage (VDC)	6.3	10	16	25	35	50	63	100
	Z-25°C/Z+20°C	2	2	2	2	2	2	2	2
	Z-40°C/Z+20°C	3	3	3	3	3	3	3	3
Load Life	Test conditions Duration time : 5Ø-6Ø1000Hrs 8Ø-18Ø 2000Hrs Ambient temperature:+105°C Applied voltage: Rated DC working voltage After test requirements at+20°C Capacitance change: ±±20% of the initial measured value Dissipation Factor: ≤200% of the initial specified value Leakage current: ≤The initial specified value								
	Shelf Life	Test conditions Duration time :500Hrs Ambient temperature:+105°C Applied voltage: None After test requirements at +20°C: Some limits as Load life. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.							

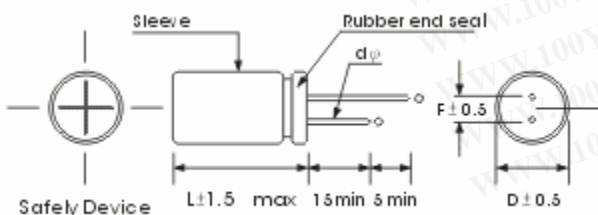
Multiplier for Ripple Current vs. Frequency

CAP(uF)\Hz		50(60)	120	400	1K	10K	50K-100K
Multiplier	CAP ≤ 10	0.47	0.59	0.76	0.85	0.97	1.0
	10<CAP ≤ 100	0.52	0.62	0.80	0.89	0.97	1.0
	100<CAP ≤ 1000	0.58	0.72	0.84	0.90	0.98	1.0
	1000<CAP	0.63	0.78	0.87	0.91	0.98	1.0

Multiplier for ripple current vs. Temperature

Temperature°C	45	60	70	85	95	105
Multiplier	1.8	1.5	1.4	1.3	1.2	1.0

Diagram of Dimensions:(Unit:mm)



Dφ	5	6.3	8	10	13	16	18
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
dφ	0.5		0.6		0.8		

勝特力材料 886-3-5753170
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 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Case Size

∅ D x L (mm)

WV(SV) Spec uF	6.3 {8}			10 {13}			16 {20}			25 {32}		
	Size	Ripple	Impedance	Size	Ripple	Impedance	Size	Ripple	Impedance	Size	Ripple	Impedance
10							5x11	37	4.00	5x11	56	2.1
22				5x11	56	2.60	5x11	70	2.00	5x11	120	1.8
33				5x11	58	2.20	5x11	130	1.26	5x11	150	1.2
47				5x11	120	1.20	5x11	180	0.70	5x11	210	0.6
56				5x11	130	1.05	5x11	205	0.55	5x11	245	0.44
68				5x11	145	0.89	5x11	230	0.45	6.3x11	270	0.39
82				5x11	185	0.75	6.3x11	280	0.37	6.3x11	285	0.33
100	5x11	200	0.48	5x11	242	0.46	6.3x11	320	0.31	6.3x11	370	0.29
220	6.3x11	310	0.25	6.3x11	350	0.22	8x11	440	0.25	8x11	500	0.10
330	6.3x11	365	0.15	6.3x11	420	0.14	8x11	560	0.10	8x16 10x12	640 670	0.072 0.069
470	8x11	420	0.12	8x11	520	0.10	8x16 10x12	660 700	0.09 0.085	8x20 10x15	880 900	0.068 0.065
560	8x11	550	0.11	8x11	640	0.092	10x12	760	0.078	10x17	1010	0.060
680	8x11	630	0.098	8x14	700	0.085	10x12	910	0.070	10x20	1130	0.054
820	8x14	710	0.085	8x16	840	0.078	10x15	1020	0.062	10x20	1300	0.047
1000	10x12	800	0.076	8x20 10x15	1000 1020	0.070 0.068	10x15 10x20	1100 1140	0.058 0.044	10x25 13x21	1500 1550	0.040 0.038
1200	10x15	890	0.068	10x15	1110	0.072	10x25	1250	0.041	13x21	1620	0.035
1500	10x15	1030	0.059	10x20	1250	0.062	10x25	1420	0.037	13x26	1730	0.032
1800	10x20	1170	0.050	10x25	1380	0.050	13x21	1610	0.033	13x26	1850	0.027
2200	10x25	1360	0.040	13x21	1570	0.038	13x26	1850	0.030	13x26	2000	0.022
2700	13x21	1480	0.037	13x21	1700	0.034	13x26	2050	0.026	16x26	2360	0.021
3300	13x21	1620	0.033	13x26	1890	0.030	13x26	2330	0.022	16x31	2500	0.020
4700	13x26	2000	0.024	16x26	2030	0.022	16x26	2510	0.020	16x31	2780	0.018
6800	16x26	2210	0.021	16x31	2240	0.021	18x31	2680	0.019	-	-	-
8200	16x31	2530	0.020	16x36	2580	0.019	18x36	2780	0.017	-	-	-
10000	16x36	2740	0.019	18x36	2770	0.017	18x41	3200	0.015	-	-	-

Ripple Current(mA,rms)at105°C100KHz

Max Impedance {Ω} at 20°C 100KHz

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Case Size

Ø D x L (mm)

WV(SV) Spec uF	35 {44}			50 {63}			63 {79}			100 {125}		
	Size	Ripple	Impedance	Size	Ripple	Impedance	Size	Ripple	Impedance	Size	Ripple	Impedance
1				5x11	25	3.95	5x11	27	3.95			
2.2				5x11	33	2.60	5x11	38	2.60			
3.3				5x11	45	2.00	5x11	48	2.00			
4.7				5x11	58	1.89	5x11	80	1.80	5x11	84	2.00
10	5x11	70	1.90	5x11	100	1.70	5x11	118	1.50	6.3x11	135	1.20
22	5x11	130	1.36	5x11	160	1.20	6.3x11	200	1.00	8x11	230	0.85
33	5x11	175	0.82	6.3x11	240	0.74	6.3x11	270	0.90	8x16	320	0.72
47	6.3x11	250	0.53	8x11	280	0.50	8x11	320	0.80	10x12	380	0.50
56	6.3x11	270	0.40	8x11	300	0.39	-	-	-	-	-	-
68	6.3x11	300	0.35	8x11	340	0.30	-	-	-	-	-	-
82	8x11	340	0.29	8x11	370	0.27	-	-	-	-	-	-
100	8x11	400	0.18	10x12	500	0.25	10x17	530	0.30	10x25	560	0.20
220	8x16 10x12	650 660	0.09 0.085	10x17	820	0.12	10x25	850	0.095	13x26 16x21	900 1050	0.085 0.082
330	10x17	920	0.059	10x25	1070	0.073	13x21	1260	0.060	16x26	1460	0.053
470	10x20	1120	0.050	13x21	1320	0.060	13x26 16x21	1650 1670	0.052 0.050	16x31 16x36	1680 1700	0.047 0.045
560	10x25	1220	0.048	13x21	1480	0.047	13x26	1790	0.044			
680	13x21	1350	0.043	13x26	1600	0.039	16x26	1950	0.038			
820	13x21	1500	0.039	13x26	1780	0.037	16x26	2140	0.032			
1000	13x26	1700	0.029	16x26	2020	0.035	16x31 16x36	2380 2400	0.030 0.028			
1200	16x26	1880	0.027	16x31	2130	0.030	16x36	2520	0.025			
1500	16x26	2030	0.025	16x36	2290	0.026	18x36	2640	0.023			
1800	16x31	2190	0.022	16x36	2480	0.024	18x41	2780	0.021			
2200	16x31	2400	0.018									

Ripple Current(mA,rms)at105°C 100KHz
 Max Impedance {Ω} at 20°C 100KHz