



LHK General Purpose, 105°C

Features

- Used in communication equipments, switching power supply, etc.
- Safety vent construction design



Specifications

Item	Performance Characteristics																												
Operating Temperature Range	-40 to +105°C	-25 to +105°C																											
Rated voltage Range	6.3 to 100 VDC	160 to 450 VDC																											
Capacitance Range	0.1 to 15000 uF	0.47 to 470 uF																											
Capacitance Tolerance	±20%(120Hz, +20°C)																												
Leakage Current (+20°C, max.)	$I \leq 0.01$ CV or 3(uA) After 1minute whichever is greater measured with rated working voltage applied.	$I \leq 0.03$ CV or 3(uA) After 1minute with rated working voltage applied..																											
Dissipation Factor (tanδ)	<table border="1"> <tr> <td>Working Voltage (VDC)</td> <td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td> </tr> <tr> <td>D.F.(%)max</td> <td>23</td><td>20</td><td>16</td><td>14</td><td>12</td><td>10</td><td>10</td><td>10</td> </tr> </table>		Working Voltage (VDC)	6.3	10	16	25	35	50	63	100	D.F.(%)max	23	20	16	14	12	10	10	10									
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D.F.(%)max	15	15	16	20	20	20																							
For Capacitance > 1000uF , add 2% per another 1000uF (+20°C, at 120Hz)																													
Low Temperature Characteristics (120Hz)	Impedance ratio max.																												
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Z-25°C/Z+20°C	3	3	3	5	6	15																							
For Capacitance Value 1000uF , add 0.5 per another 1000uF for -25°C/+20°C add 1 per another 1000uF for -40°C/+20°C																													
Load Life	Test conditions Duration time : 5Ø~6Ø1000Hrs 8Ø~25Ø 2000Hrs Ambient temperature:+105°C Applied voltage: Rated DC working voltage After test requirements:at+20°C After test requirements: ≤±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.																												

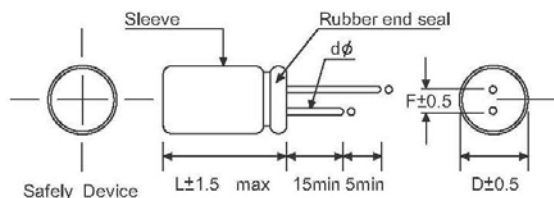
Multiplier for Ripple Current VS, Frequency

CAP (uF) \ HZ		50(60)	120	400	1K	10K	50-100K
Multiplier	CAP ≤ 10	0.8	1.0	1.30	1.45	1.65	1.70
	10 < CAP ≤ 100	0.8	1.0	1.23	1.36	1.48	1.53
	100 < CAP ≤ 1000	0.8	1.0	1.16	1.25	1.35	1.38
	1000 < CAP	0.8	1.0	1.11	1.18	1.25	1.28

Multiplier for Ripple Current VS, Temperature

Temperature (°C)	45	60	70	85	105
Multiplier	2.10	1.90	1.65	1.40	1.00

Diagram of Dimensions: (Unit: mm)



Dφ	5	6.3	8	10	13	16	18	22	25
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10	12
dφ	0.5		0.6		0.8		1.0		



Case Size

Ø D x L (mm)

WV {SV}	50 {63}		63 {79}		100 {125}		160 {200}		200 {250}	
	uF	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size
0.1	5x11	1.3	5x11	1.3	5x11	1.3	-	-	-	-
0.22	5x11	2.9	5x11	2.9	5x11	2.9	-	-	-	-
0.33	5x11	4.2	5x11	4.2	5x11	4.2	-	-	-	-
0.47	5x11	8	5x11	8	5x11	8	5x11	12	5x11	12
1	5x11	14	5x11	14	5x11	15	5x11	17	6.3x11	17
2.2	5x11	20	5x11	21	5x11 6x11	22 24	6.3x11	26	6.3x11	33
3.3	5x11	26	5x11	28	5x11	30	6.3x11	32	6.3x11	43
4.7	5x11	32	5x11	34	5x11	36	6.3x11 8x11	36 42	8x11	51
6.8	5x11	40	5x11	42	6.3x11	47	8x11	56	10x12	63
10	5x11 6x11	50 55	5x11	51	6.3x11	60	8x11 10x12	75 78	10x12 10x15	83 90
22	5x11	75	5x11 6.3x11	75 85	6.3x11 8x11	98 105	10x15	105	10x20	135
33	5x11 6.3x11	90 95	6.3x11 8x11	105 115	8x11 10x12	145 155	10x20	170	13x21	180
47	6.3x11	120	6.3x11 8x11	145 155	10x12 10x15	170 180	13x21	210	13x21 13x26	220 230
68	8x11	155	8x11	185	10x15 10x17	240 250	13x26	280	16x26	300
100	8x11	200	8x11 10x12	220 240	10x16 10x20	250 270	13x26 16x26	320 330	16x26	360
220	8x16 10x12 10x15 10x17	355 350 360 365	10x17 10x20	400 430	13x26 16x26	530 560	16x36	580	18x36	590
330	10x15 10x17 10x20	435 450 470	10x20 13x21	500 570	16x26	680	18x31	710	18x31 18x36	590 740
470	10x20 13x21	590 610	13x21 13x26 16x26	640 700 720	16x26 16x31	840 860	18x36 18x41	870 880	22x42	890
560	13x21	660	13x26	770	16x36	880	-	-	-	-
680	13x21 13x26	730 770	16x26	880	16x36	920	-	-	-	-
820	13x26	850	16x26	920	18x31	970	-	-	-	-
1000	13x26 16x21 16x26	900 950 1010	16x26 16x36	1150 1220	18x41	1250	-	-	-	-
1500	16x31	1300	18x31	1350	22x42	1500	-	-	-	-
2200	16x26 16x31 18x36	1400 1450 1550	18x36 22x42	1590 2100	25x44	1880	-	-	-	-
2700	18x36	1610	22x42	1720	-	-	-	-	-	-
3300	18x36	1780	22x42	1900	-	-	-	-	-	-
4700	22x42	2050	25x44	2200	-	-	-	-	-	-
5600	25x42	2160	-	-	-	-	-	-	-	-
6800	25x44	2280	-	-	-	-	-	-	-	-
10000	25x42 25x50	2800 3100	-	-	-	-	-	-	-	-

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