DKL series

Features

- Low impedance for high ripple current , Lower water series , 4000 to 10000 hours at 105℃.
- Used in communication equipments ,switching power supply, industrial measuring instruments, et .
- RoHS Compliant .

Specifications

Item	Performance Characteristics
Temperature Range	-40~+105℃
Rated Voltage Range	6.3~100Vdc
Capacitance Range	10~4700μF
Capacitance Tolerance	±20%（120Hz，+20℃）
Leakage Current（+20℃,max.）	I≤0.01CV 或 3（μA） After 2 minutes, whichever is greater measured with rated working voltage applied
Dissipation Factor（tgδ）120Hz，+20℃	For capacitance>1000μF , Add 2% per another 1000μF (120Hz，+20℃)
Low Temperature Characteristics（120Hz）	Impedance ratio max.
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated ripple Current is applied for the specified period of time at 105℃
Shelf Life	After storing the capacitors under no load at 105℃ for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20℃, they shall meet the specified values for the load life characteristics listed above.
Others	JISC-5101(IEC 60384)

Working Voltage(Vdc)	6.3	10	16	25	35	50	63	100
D.F (%) max.	22	19	16	14	12	10	9	8

Working Voltage(Vdc)	6.3	10	16	25	35	50	63	100
Z-25℃/ Z+20℃	4	3	2	2	2	2	2	2
Z-40℃/ Z+20℃	8	6	4	3	3	3	3	3

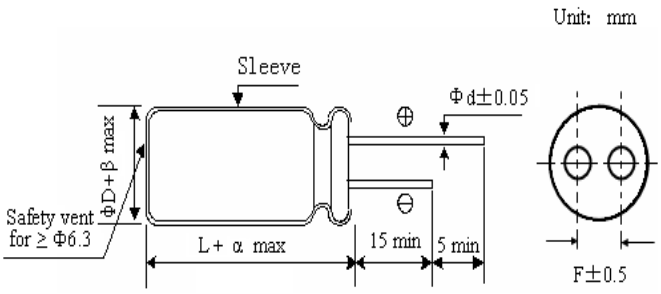
Rated Voltage	6.3 to 10Vdc	16 to 100Vdc
CapacitanceChange	≤±25% of the initial value	≤±20% of the initial value
D.F.(tgδ)	≤200% of the initial specified value	
Leakage Current	≤The initial specified value	

ΦD	6.3~10 WV	16~100 WV
5~6.3	4000 h	5000 h
8~10	5000 h	6000 h
⩾13	8000 h	10000 h

Frequency Multipliers

μF \ Hz	120	1K	10K	100K
<220	0.40	0.75	0.90	1.00
220~470	0.50	0.85	0.94	1.00
680~1500	0.60	0.87	0.95	1.00
2200~3300	0.75	0.90	0.95	1.00
4700	0.85	0.95	0.98	1.00

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	0.5	0.5	0.6	0.6	0.8	0.8
α	(L< 20) + 1.5			(L≥20) + 2.0			
β	(D< 20) + 0.5			(D≥20) + 1.0			

DKL series

Standard Ratings

Voltage	6.3V			10V			16V			25V		
Cap(μF)	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current
47	5×11	0.96	125	5×11	0.96	125	5×11	0.85	140	5×11	0.75	184
100	5×11	0.65	175	5×11	0.63	201	6.3×11	0.36	265	6.3×11	0.25	320
220	6.3×11	0.30	290	6.3×11	0.27	343	8×12	0.21	452	8×12	0.17	503
330	6.3×11	0.27	343	8×12	0.17	488	8×16	0.13	575	8×20	0.095	751
470	8×12	0.17	488	8×16	0.13	617	8×20	0.095	760	10×20	0.065	1010
680	8×16	0.13	617	8×20	0.095	800	10×20	0.065	1010	10×25	0.050	1311
1000	8×20	0.095	800	10×17	0.080	931	10×25	0.050	1314	13×25	0.038	1690
1500	10×25	0.055	1190	10×25	0.050	1315	13×25	0.038	1690	13×30	0.032	1950
2200	10×30	0.045	1440	13×20	0.050	1512	13×30	0.032	1950	13×40	0.026	2390
3300	13×25	0.035	1750	13×30	0.030	2220	16×25	0.025	2300	16×35	0.022	2560
4700	13×35	0.030	2220	16×30	0.022	2390	16×35	0.020	2680	18×40	0.020	3020

Voltage	35V			50V			63V			100V		
Cap(μF)	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current
10	5×11	1.76	107	5×11	1.40	110	5×11	1.20	120	6.3×11	1.30	74
22	5×11	0.80	107	5×11	0.64	110	6.3×11	0.85	135	8×12	0.53	275
33	5×11	0.53	193	6.3×11	0.50	142	6.3×11	0.45	164	8×16	0.35	360
47	6.3×11	0.41	248	6.3×11	0.36	153	8×12	0.32	360	10×17	0.25	490
68	6.3×11	0.25	320	8×12	0.20	360	8×16	0.24	469	10×25	0.18	634
100	8×12	0.20	457	10×12	0.15	553	10×17	0.17	682	10×30	0.15	739
220	8×20	0.095	760	10×20	0.075	876	13×20	0.075	979	13×35	0.075	1240
330	10×20	0.065	1010	10×30	0.055	1110	13×25	0.065	1180	16×30	0.060	1450
470	10×25	0.050	1306	13×20	0.044	1406	13×30	0.050	1430	16×35	0.050	1690
680	13×25	0.038	1690	13×30	0.035	1710	16×25	0.035	1630	18×40	0.035	2280
1000	13×30	0.032	1950	16×30	0.030	2050	16×35	0.030	2190			

Max Allowable Ripple Current (mA,rms) at 105℃ 100KHz, Max Impedance(Ω) at 20℃ 100 KHz,Case Size ΦD×L(mm).

Above size is the standard size for our product. If you need special size please contact our sales offices.