

LGK Series

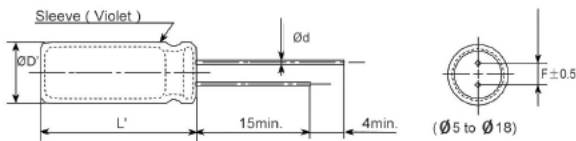
- Low impedance & Long life design
- Life time: +105°C 15000 hours
- Suit for Digital Household Appliance、Car-Audio、Tuner、SMPS、Adaptor...
- RoHs Compliant



◆ SPECIFICATIONS

Items	Characteristics											
Category	-40 ~ +105°C								-25 ~ +105°C			
Temperature Range												
Rated Voltage Range	6.3 ~ 100 Vdc								160 ~ 450 Vdc			
Capacitance Tolerance	±20%(M)								(at 20°C, 120Hz)			
Leakage Current	6.3 to 100Vdc :I=0.01CV(μA) or 3μA, which is greater.								160 to 450Vdc : I≤0.04CV +100μA			
	Where, I: Max. leakage current (μA), C: Nominal capacitance (μF), V: Rated voltage(V) (at 20°C after 1 minutes)											
Dissipation Factor (tan δ)	Rated Voltage (Vdc)	6.3v	10v	16v	25v	35v	50v	63v	80v	100v	160 to 250v	350 ~ 450v
	tanδ(Max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.09	0.08	0.20	0.24
	When nominal capacitance exceeds 1,000μF, add 0.02 to the value above for each 1,000μF increase . (at 20°C, 120Hz)											
Low Temperature Characteristics (Max. Impedance Ratio)	Rated Voltage (Vdc)				6.3 to 100v				160 to 250v		350 to 450v	(at 120Hz)
	Z(-25°C)/Z(+20°C)				2max				3		6	
	Z(-40°C)/Z(+20°C)				3max				6		6	
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for 15000 hours at 105°C.											
	Capacitance change				±20% of the initial value.							
	D.F. (tan δ)				≤150% of the initial specified value.							
	Leakage current				≤ The initial specified value.							
Shelf Life	The following specifications shall be satisfied when the capacitors performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C after exposing them for 1000hours at 105°C without voltage applied.											
	Capacitance change				±20% of the initial value.							
	D.F. (tan δ)				≤200% of the initial specified value.							
	Leakage current				≤The initial specified value.							

◆ DIMENSIONS [mm]



φD	5	6.3	8	10	12.5	16	18	22
φd	0.5	0.5	0.6	0.6	0.6	0.8	0.8	1.0
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10.0
φD'					φD+0.5max.			
L'					L+2.0max.			

◆ RATED RIPPLE CURRENT MULTIPLIERS

FREQUENCY COEFFICIENT

Freq.(Hz) μF	120	1K	10K	100K
6.8 ~ 180	0.40	0.75	0.90	1.00
220 ~ 560	0.44	0.85	0.94	1.00
680 ~ 1800	0.60	0.87	0.95	1.00
2200 ~ 3900	0.75	0.90	0.95	1.00
4700 ~	0.85	0.95	0.98	1.00

Part number system for Radial type:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
		L	G	K	2	G	1	0	0	E	G	0	2	0	M
Type of series					Voltage code(V)		Capacitance code(μF)		Sleeve material	Diameter (mm)	The length(mm)		Capacitance tolerance		

◆ Standard Rating of LGK Series (6.3v-100v)

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	IMP.(Ωmax)100KHz		Ripple current mA/105°C, 100KHz
			20°C	-10°C	
6.3(0J)	150	5×11	0.30	1.00	358
	330	6.3×11	0.13	0.41	562
	560	8×11.5	0.072	0.22	863
	820	8×16	0.056	0.17	1035
	1000	10×12.5	0.053	0.16	1280
	1200	10×16	0.038	0.12	1487
	1500	10×20	0.023	0.069	1893
	2200	10×25	0.022	0.066	2236
	3300	12.5×20	0.021	0.053	2455
	3900	12.5×25	0.018	0.045	2880
	4700	12.5×30	0.016	0.041	3266
	5600	16×20	0.018	0.045	3421
	6800	16×25	0.016	0.043	3598
10(1A)	100	5×11	0.30	1.00	468
	220	6.3×11	0.13	0.41	676
	470	8×11.5	0.072	0.22	1206
	680	10×12.5	0.053	0.16	1643
	1000	10×16	0.038	0.12	2038
	1200	10×20	0.023	0.069	2288
	1500	10×25	0.022	0.066	2620
	2200	12.5×20	0.021	0.053	3172
	3300	12.5×25	0.018	0.045	3328
	3900	12.5×30	0.016	0.041	3536
16(1C)	56	5×11	0.30	1.00	406
	120	6.3×11	0.13	0.41	572
	330	8×11.5	0.072	0.22	1135
	470	10×12.5	0.053	0.16	1382
	680	10×16	0.038	0.12	1903
	1000	10×20	0.023	0.069	2319
	1200	10×25	0.022	0.066	2445
	1500	12.5×20	0.021	0.053	2766
	2200	12.5×25	0.018	0.045	2985
	2700	12.5×30	0.016	0.041	3735
	3300	12.5×30	0.015	0.039	4015
	3900	16×25	0.016	0.043	4493
	4700	16×25	0.015	0.041	4597
	6800	16×25	0.014	0.049	4763
25(1E)	47	5×11	0.30	1.00	468
	100	6.3×11	0.13	0.41	728
	220	8×11.5	0.072	0.22	1248
	330	10×12.5	0.053	0.16	1684
	470	10×16	0.038	0.12	1903
	680	10×20	0.023	0.069	2412
	820	10×25	0.022	0.066	2766
	1000	12.5×20	0.021	0.053	2860
	1500	12.5×25	0.018	0.045	2984
	1800	12.5×30	0.016	0.041	3525
	2200	16×25	0.015	0.040	4014
	2700	16×25	0.015	0.039	4087
	3300	16×35	0.014	0.039	4534
	3900	18×35	0.015	0.040	4596
	4700	18×40	0.014	0.037	4732

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	IMP.(Ωmax)100KHz		Ripple current mA/105°C, 100KHz
			20°C	-10°C	
35(1V)	33	5×11	0.30	1.00	468
	56	6.3×11	0.13	0.41	660
	150	8×11.5	0.072	0.22	1310
	220	10×12.5	0.053	0.16	1799
	330	10×16	0.038	0.12	2215
	470	10×20	0.023	0.069	2724
	560	10×25	0.022	0.066	2964
	680	10×20	0.021	0.053	3172
	1000	12.5×25	0.018	0.045	3338
	1200	12.5×30	0.016	0.041	3629
	1500	16×25	0.016	0.039	3962
	1800	16×25	0.016	0.043	4492
	2200	16×35	0.015	0.039	4628
50(1H)	2700	18×35	0.016	0.041	4856
	3300	18×40	0.015	0.039	4981
	22	5×11	0.34	1.18	468
	56	6.3×11	0.14	0.50	764
	100	8×11.5	0.074	0.22	1476
	120	8×11.5	0.061	0.18	1851
	150	10×12.5	0.061	0.18	1965
	180	10×12.5	0.046	0.14	2246
	220	10×16	0.042	0.12	2464
	270	10×20	0.030	0.090	2548
	330	10×25	0.028	0.085	2776
	470	12.5×20	0.027	0.068	2964
	680	12.5×30	0.021	0.052	3078
	820	16×20	0.023	0.059	3504
	1000	16×25	0.021	0.056	4082
	2200	18×30	0.019	0.054	4820
	3300	18×30	0.019	0.054	5194
	3900	22×40	0.018	0.052	5499
	4700	22×40	0.018	0.052	5635
63(1J)	15	5×11	0.88	3.5	379
	33	6.3×11	0.35	1.4	410
	56	8×11.5	0.22	0.88	644
	82	10×12.5	0.11	0.44	1029
	120	10×16	0.076	0.31	1389
	180	10×20	0.056	0.23	1612
	220	10×25	0.046	0.19	1736
	270	12.5×20	0.041	0.13	1872
	390	12.5×25	0.031	0.093	2381
	470	12.5×30	0.028	0.084	2662
	560	16×25	0.023	0.072	2839
	680	16×25	0.025	0.075	3016
	820	16×30	0.021	0.063	3265
	1000	16×35	0.019	0.057	3432
	1200	16×40	0.018	0.054	3619
	1500	18×35	0.018	0.054	3744
	1800	18×40	0.017	0.051	4045
	2200	18×40	0.017	0.050	4212
	2700	18×40	0.017	0.050	4430
	3300	22×35	0.016	0.049	4596
	3900	22×40	0.015	0.048	4690
	4700	22×40	0.015	0.048	5491

◆ Standard Rating of LGK Series (6.3v-100v)

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	IMP.(Ωmax)100KHz		Ripple current mA/105°C, 100KHz
			20°C	-10°C	
80(1K)	68	10×12.5	0.17	0.66	1029
	100	10×16	0.11	0.47	1237
	120	10×20	0.084	0.34	1404
	150	10×25	0.069	0.28	1632
	220	12.5×20	0.062	0.18	1944
	330	12.5×25	0.047	0.14	2298
	390	12.5×30	0.042	0.13	2516
	470	16×25	0.038	0.12	2891
	560	16×30	0.032	0.095	3182
	680	16×30	0.032	0.095	3244
	820	16×35	0.029	0.086	3432
	1000	18×35	0.027	0.081	3588
	1200	18×40	0.026	0.077	3931
	1500	18×40	0.026	0.076	4066
	1800	18×45	0.025	0.075	4347
	2200	18×45	0.025	0.075	4420
	2700	22×25	0.023	0.073	4503
	3300	22×30	0.023	0.073	4628
	3900	22×40	0.022	0.073	5189

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	IMP.(Ωmax)100KHz		Ripple current mA/105°C, 100KHz
			20°C	-10°C	
100 (2A)	6.8	5×11	1.4	5.6	452
	15	6.3×11	0.57	2.3	530
	27	8×11.5	0.36	1.4	676
	39	10×12.5	0.25	1.0	852
	47	10×12.5	0.17	0.66	988
	56	10×16	0.17	0.66	1341
	68	10×16	0.11	0.47	1404
	82	10×20	0.084	0.34	1549
	100	12.5×20	0.084	0.34	1747
	120	12.5×20	0.069	0.28	1799
	150	12.5×20	0.062	0.18	1976
	220	12.5×25	0.047	0.14	2111
	270	12.5×30	0.042	0.13	2704
	330	16×25	0.038	0.12	2974
	390	16×30	0.032	0.095	3120
	470	18×25	0.032	0.095	3296
	560	18×30	0.030	0.090	3432
	680	18×35	0.027	0.081	3931
	820	18×40	0.026	0.077	4160

◆ Standard Rating of LGK Series (160v-450v)

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	tan δ	Ripple current(mA/105°C)	
				120Hz	100KHz
160 (2C)	10	10×16	0.20	180	468
	22	10×20	0.20	230	598
	33	10×20	0.20	260	676
	47	10×20	0.20	320	832
	68	12.5×20	0.20	490	1274
	82	12.5×20	0.20	590	1537
	100	12.5×30	0.20	720	1872
	150	16×20	0.20	880	2288
	220	16×25	0.20	1220	3172
200 (2D)	330	18×30	0.20	1560	4056
	10	10×16	0.20	200	520
	22	10×20	0.20	280	728
	33	10×20	0.20	360	936
	47	12.5×20	0.20	450	1170
	68	12.5×20	0.20	565	1468
	82	16×20	0.20	630	1638
	100	16×20	0.20	725	1885
	150	16×25	0.20	970	2522
250 (2E)	220	18×30	0.20	1240	2932
	330	18×35	0.20	1645	3931
	10	10×20	0.20	230	598
	22	10×20	0.20	320	832
	33	12.5×20	0.20	420	1092
	47	12.5×20	0.20	520	1352
	68	16×20	0.20	650	1690
	82	16×20	0.20	730	1898
	100	16×25	0.20	840	2184
	150	18×30	0.20	1100	2860
	220	18×30	0.20	1390	3286

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	tan δ	Ripple current(mA/105°C)	
				120Hz	100KHz
350 (2V)	6.8	10×16	0.24	240	624
	10	10×20	0.24	265	691
	22	12.5×20	0.24	340	884
	33	16×20	0.24	500	1300
	47	16×20	0.24	580	1508
	68	16×25	0.24	690	1794
	82	18×25	0.24	770	2002
	100	18×25	0.24	920	2392
	120	18×30	0.24	980	2548
	150	18×35	0.24	1190	3094
400 (2G)	6.8	10×16	0.24	265	691
	10	10×20	0.24	340	884
	15	12.5×20	0.24	410	1066
	22	12.5×20	0.24	500	1300
	33	16×20	0.24	580	1508
	47	16×25	0.24	690	1794
	68	18×25	0.24	770	2002
	82	18×25	0.24	920	2392
	100	18×30	0.24	980	2548
	120	18×35	0.24	1190	3094
450 (2W)	150	18×40	0.24	1250	3250
	6.8	10×20	0.24	340	884
	10	12.5×20	0.24	410	1066
	15	12.5×25	0.24	500	1300
	22	16×20	0.24	580	1508
	47	16×25	0.24	770	2002
	68	18×30	0.24	920	2392
	82	18×35	0.24	980	2548
	100	18×40	0.24	1190	3094

- Taping, Cutting Products & other customized demands are available upon request.
- Please check with us about the specified actual demanding.