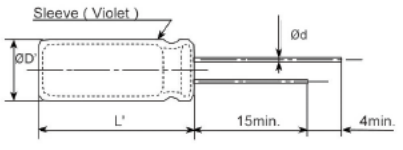
LGD Series

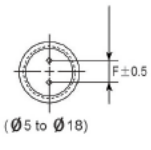
- Low impedance & Long life design
- Life time: +105°C 6000 hours
- Suit for Digital Household Appliance、Car-Audio、Tuner、SMPS、Adaptor...
- RoHs Compliant

◆ SPECIFICATIONS

Items	Characteristics										
Category Temperature Range	-40 ~ +105°C							-25 ~ +105°C			
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 6000 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	D	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 LGD 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	308
	330	6.3×11	0.13	0.41	484
	560	8×11.5	0.072	0.22	743
	820	8×16	0.056	0.17	892
	1000	10×12.5	0.053	0.16	1102
	1200	10×16	0.038	0.12	1283
	1500	10×20	0.023	0.069	1633
	2200	10×25	0.022	0.066	1929
	3300	12.5×20	0.021	0.053	2117
	3900	12.5×25	0.018	0.045	2486
	4700	12.5×30	0.016	0.041	2817
	5600	16×20	0.018	0.045	2952
	6800	16×25	0.016	0.043	3105
10(1A)	100	5×11	0.30	1.00	402
	220	6.3×11	0.13	0.41	582
	470	8×11.5	0.072	0.22	1039
	680	10×12.5	0.053	0.16	1417
	1000	10×16	0.038	0.12	1758
	1200	10×20	0.023	0.069	1973
	1500	10×25	0.022	0.066	2262
	2200	12.5×20	0.021	0.053	2736
	3300	12.5×25	0.018	0.045	2871
	3900	12.5×30	0.016	0.041	3051
	4700	12.5×30	0.015	0.039	3464
	5600	16×25	0.016	0.043	3877
16(1C)	56	5×11	0.30	1.00	349
	120	6.3×11	0.13	0.41	492
	330	8×11.5	0.072	0.22	977
	470	10×12.5	0.053	0.16	1191
	680	10×16	0.038	0.12	1641
	1000	10×20	0.023	0.069	2000
	1200	10×25	0.022	0.066	2108
	1500	12.5×20	0.021	0.053	2387
	2200	12.5×25	0.018	0.045	2575
	2700	12.5×30	0.016	0.041	3222
	3300	12.5×30	0.015	0.039	3464
	3900	16×25	0.016	0.043	3877
	4700	16×25	0.015	0.041	3966
	6800	16×25	0.014	0.049	4109
25(1E)	47	5×11	0.30	1.00	403
	100	6.3×11	0.13	0.41	627
	220	8×11.5	0.072	0.22	1075
	330	10×12.5	0.053	0.16	1453
	470	10×16	0.038	0.12	1641
	680	10×20	0.023	0.069	2081
	820	10×25	0.022	0.066	2387
	1000	12.5×20	0.021	0.053	2467
	1500	12.5×25	0.018	0.045	2575
	1800	12.5×30	0.016	0.041	3041
	2200	16×25	0.015	0.040	3464
	2700	16×25	0.015	0.039	3527
	3300	16×35	0.014	0.039	3923
	3900	18×35	0.015	0.040	3966
	4700	18×40	0.014	0.037	4100

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	402
	56	6.3×11	0.13	0.41	568
	150	8×11.5	0.072	0.22	1131
	220	10×12.5	0.053	0.16	1552
	330	10×16	0.038	0.12	1910
	470	10×20	0.023	0.069	2351
	560	10×25	0.022	0.066	2557
	680	10×20	0.021	0.053	2736
	1000	12.5×25	0.018	0.045	2880
	1200	12.5×30	0.016	0.041	3132
	1500	16×25	0.016	0.039	3419
	1800	16×25	0.016	0.043	3877
	2200	16×35	0.015	0.039	3994
	2700	18×35	0.016	0.041	4191
	3300	18×40	0.015	0.039	4299
50(1H)	22	5×11	0.34	1.18	402
	56	6.3×11	0.14	0.50	659
	100	8×11.5	0.074	0.22	1273
	120	8×11.5	0.061	0.18	1597
	150	10×12.5	0.061	0.18	1696
	180	10×12.5	0.046	0.14	1938
	220	10×16	0.042	0.12	2127
	270	10×20	0.030	0.090	2199
	330	10×25	0.028	0.085	2396
	470	12.5×20	0.027	0.068	2558
	680	12.5×30	0.021	0.052	2656
	820	16×20	0.023	0.059	3024
	1000	16×25	0.021	0.056	3523
	2200	18×30	0.019	0.054	4160
	3300	18×30	0.019	0.054	4483
	3900	22×40	0018	0.052	4746
	4700	22×40	0.018	0.052	4863
63(1J)	15	5×11	0.88	3.5	326
	33	6.3×11	0.35	1.4	354
	56	8×11.5	0.22	0.88	555
	82	10×12.5	0.11	0.44	887
	120	10×16	0.076	0.31	1198
	180	10×20	0.056	0.23	1391
	220	10×25	0.046	0.19	1498
	270	12.5×20	0.041	0.13	1615
	390	12.5×25	0.031	0.093	2054
	470	12.5×30	0.028	0.084	2298
	560	16×25	0.023	0.072	2450
	680	16×25	0.025	0.075	2601
	820	16×30	0.021	0.063	2817
	1000	16×35	0.019	0.057	2961
	1200	16×40	0.018	0.054	3123
	1500	18×35	0.018	0.054	3231
	1800	18×40	0.017	0.051	3491
	2200	18×40	0.017	0.050	3635
	2700	18×40	0.017	0.050	3823
	3300	22×35	0.016	0.049	3966
	3900	22×40	0.015	0.048	4048
	4700	22×40	0.015	0.048	4738

◆ Standard Rating of LGD 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	887
	100	10×16	0.11	0.47	1067
	120	10×20	0.084	0.34	1210
	150	10×25	0.069	0.28	1408
	220	12.5×20	0.062	0.18	1677
	330	12.5×25	0.047	0.14	1982
	390	12.5×30	0.042	0.13	2170
	470	16×25	0.038	0.12	2495
	560	16×30	0.032	0.095	2746
	680	16×30	0.032	0.095	2800
	820	16×35	0.029	0.086	2691
	1000	18×35	0.027	0.081	3096
	1200	18×40	0.026	0.077	3393
	1500	18×40	0.026	0.076	3508
	1800	18×45	0.025	0.075	3751
	2200	18×45	0.025	0.075	3814
	2700	22×25	0.023	0.073	3885
	3300	22×30	0.023	0.073	3994
	3900	22×40	0.022	0.073	4478

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	390
	15	6.3×11	0.57	2.3	456
	27	8×11.5	0.36	1.4	582
	39	10×12.5	0.25	1.0	734
	47	10×12.5	0.17	0.66	851
	56	10×16	0.17	0.66	1157
	68	10×16	0.11	0.47	1210
	82	10×20	0.084	0.34	1336
	100	12.5×20	0.084	0.34	1507
	120	12.5×20	0.069	0.28	1552
	150	12.5×20	0.062	0.18	1704
	220	12.5×25	0.047	0.14	1821
	270	12.5×30	0.042	0.13	2333
	330	16×25	0.038	0.12	2566
	390	16×30	0.032	0.095	2692
	470	18×25	0.032	0.095	2845
	560	18×30	0.030	0.090	2961
	680	18×35	0.027	0.081	3393
	820	18×40	0.026	0.077	3590

◆ Standard Rating of LGD 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	160	400
	22	10×20	0.20	207	517
	33	10×20	0.20	233	582
	47	10×20	0.20	287	717
	68	12.5×20	0.20	439	1097
	82	12.5×20	0.20	530	1325
	100	12.5×30	0.20	647	1617
	150	16×20	0.20	790	1975
	220	16×25	0.20	1093	2484
	330	18×30	0.20	1400	3181
200 (2D)	10	10×16	0.20	179	447
	22	10×20	0.20	250	625
	33	10×20	0.20	322	805
	47	12.5×20	0.20	404	1010
	68	12.5×20	0.20	507	1267
	82	16×20	0.20	566	1415
	100	16×20	0.20	650	1625
	150	16×25	0.20	870	2175
	220	18×30	0.20	1113	2529
	330	18×35	0.20	1476	3354
250 (2E)	10	10×20	0.20	207	517
	22	10×20	0.20	286	715
	33	12.5×20	0.20	377	942
	47	12.5×20	0.20	467	1167
	68	16×20	0.20	583	1457
	82	16×20	0.20	655	1637
	100	16×25	0.20	754	1885
	150	18×30	0.20	987	2467
	220	18×30	0.20	1247	2834

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	215	537
	10	10×20	0.24	237	595
	22	12.5×20	0.24	304	762
	33	16×20	0.24	449	1122
	47	16×20	0.24	520	1300
	68	16×25	0.24	619	1547
	82	18×25	0.24	691	1727
	100	18×25	0.24	825	2062
	120	18×30	0.24	880	2200
	150	18×35	0.24	1068	2670
400 (2G)	6.8	10×16	0.24	238	595
	10	10×20	0.24	305	762
	15	12.5×20	0.24	368	920
	22	12.5×20	0.24	449	1122
	33	16×20	0.24	520	1300
	47	16×25	0.24	619	1547
	68	18×25	0.24	691	1727
	82	18×25	0.24	825	2062
	100	18×30	0.24	880	2200
	120	18×35	0.24	1068	2670
	150	18×40	0.24	1121	2802
450 (2W)	6.8	10×20	0.24	305	762
	10	12.5×20	0.24	368	920
	15	12.5×25	0.24	449	1122
	22	16×20	0.24	520	1300
	47	16×25	0.24	691	1727
	68	18×30	0.24	825	2062
	82	18×35	0.24	880	2200
	100	18×40	0.24	1068	2670

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