

## LGE Series

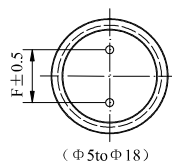
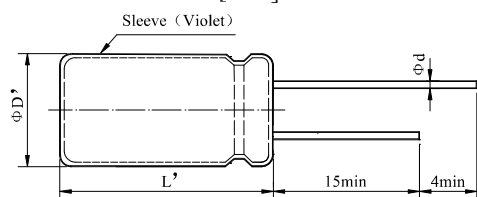
- Life time: +130°C 3000 hours, +105°C 12000 hours
- Withstand high temperature +130°C, Miniaturized, Long life
- Suitable for output circuit and input circuit of LED driving power
- Sleeve color is Blackish green
- RoHs Compliant



### ◆ SPECIFICATIONS

Items	Characteristics							
Category	-40°C to +130°C(160 to 400Vdc) -25°C to +130°C(450Vdc) -25°C to +105°C(500Vdc)							
Temperature Range								
Rated Voltage Range	160 to 500Vdc							
Capacitance Tolerance	± 20%(M) ( at 20°C, 120Hz)							
Leakage Current	160 to 400Vdc : I ≤ 0.02CV + 10μA				450 to 500Vdc : I ≤ 0.03CV + 10μA			
	Where, I: Max. leakage current (μA), C: Nominal capacitance (μF), V: Rated voltage(V) ( at 20°C after 2 minutes)							
Dissipation Factor (tan δ)	Rated Voltage (Vdc)	160	200	250	350	400	450	500
	tanδ(Max.)	0.15	0.15	0.15	0.20	0.20	0.20	0.24
Low Temperature Characteristics (Max. Impedance Ratio)	Rated Voltage (Vdc)	160	200	250	350	400	450	500
	Z(-25°C)/Z(+20°C)	3	3	3	5	5	6	6
	Z(-40°C)/Z(+20°C)	6	6	6	6	6	-	-
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C, after subjected to DC voltage is applied for the specified period of time at 130°C, or after subjected to DC voltage with the rated ripple current is applied for the specified period of time at 105°C.							
	Capacitance change	≤ ± 20% of the initial value.			WV	130°C Lifetime (hours)	105°C Lifetime (hours)	
	D.F. (tan δ)	≤ 200% of the initial specified value.			160 to 450	3000	12000	
	Leakage current	≤ The initial specified value.			500	-	10000	
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
Φd	0.5	0.5	0.5	0.6	0.6	0.8	0.8
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
	ΦD'			ΦD+0.5max.			
	L'			L+2.0max.			

### ◆ RATED RIPPLE CURRENT MULTIPLIERS

Frequency correction factor for ripple current

Cap.(μF) \ Freq.(Hz)	120	1k	10k	100k
Cap. < 33	0.40	0.70	0.90	1.00
Cap. ≥ 33	0.50	0.80	0.90	1.00

**LGE Series**

◆ STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size ΦD×L(mm)	tan δ	Ripple current mArms/105°C,100kHz
160(2C)	1	6.3×11	0.15	45
	1.5	6.3×11	0.15	50
	1.8	6.3×11	0.15	55
	2.2	6.3×11	0.15	61
	2.8	6.3×11	0.15	78
	3.3	6.3×11	0.15	92
	4.7	8×12	0.15	100
	5.6	8×12	0.15	107
	6.8	8×16	0.15	115
	8.2	8×16	0.15	189
	10	8×16	0.15	300
	15	8×20	0.15	350
	22	10×20	0.15	500
	33	10×20	0.15	650
	47	10×20	0.15	750
	68	12.5×20	0.15	1180
100	12.5×25	0.15	1420	
150	16×25	0.15	1890	
220	18×25	0.15	2370	
200(2D)	1	6.3×11	0.15	62
	1.5	6.3×11	0.15	66
	1.8	6.3×11	0.15	72
	2.2	6.3×11	0.15	81
	2.8	6.3×11	0.15	95
	3.3	6.3×11	0.15	112
	4.7	8×12	0.15	160
	5.6	8×12	0.15	190
	6.8	8×16	0.15	220
	8.2	8×16	0.15	279
	10	8×16	0.15	300
	10	10×16	0.15	320
	15	8×20	0.15	358
	22	10×16	0.15	500
	22	10×20	0.15	525
	33	10×20	0.15	650
	47	12.5×20	0.15	980
	68	12.5×25	0.15	1300
	68	16×20	0.15	1300
	82	16×20	0.15	1380
100	16×20	0.15	1420	
100	16×25	0.15	1494	
150	16×25	0.15	1890	
150	16×30	0.15	1989	

WV (Vdc)	Cap (μF)	Case size ΦD×L(mm)	tan δ	Ripple current mArms/105°C,100kHz
250(2E)	1	6.3×11	0.15	62
	1.5	6.3×11	0.15	66
	1.8	6.3×11	0.15	72
	2.2	6.3×11	0.15	81
	2.8	6.3×11	0.15	95
	3.3	6.3×11	0.15	112
	4.7	8×12	0.15	160
	5.6	8×12	0.15	190
	6.8	8×16	0.15	225
	8.2	8×20	0.15	288
	10	8×20	0.15	320
	15	8×20	0.15	420
	22	10×16	0.15	500
	22	10×20	0.15	550
	33	12.5×16	0.15	760
	33	12.5×20	0.15	800
47	12.5×20	0.15	980	
56	12.5×25	0.15	1080	
68	16×25	0.15	1368	
82	12.5×30	0.15	1500	
100	16×30	0.15	1610	
150	16×35	0.15	2000	
350(2V)	1	6.3×11	0.20	64
	1.5	8×12	0.20	75
	1.8	8×12	0.20	85
	2.2	8×12	0.20	95
	2.8	8×12	0.20	100
	3.3	8×12	0.20	118
	4.7	8×16	0.20	170
	5.6	8×16	0.20	200
	6.8	8×20	0.20	252
	6.8	10×16	0.20	252
	8.2	8×20	0.20	288
	10	8×20	0.20	320
	10	10×20	0.20	350
	15	10×20	0.20	450
	22	12.5×20	0.20	650
	33	12.5×20	0.20	855
33	16×20	0.20	900	
47	16×20	0.20	1080	
68	18×20	0.20	1368	
68	18×25	0.20	1470	
82	18×25	0.20	1530	
100	18×30	0.20	1700	

# LGE Series

◆ STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size ΦD×L(mm)	tan δ	Ripple current mArms/105°C,100kHz
400(2G)	1	8×12	0.20	72
	1.5	8×12	0.20	90
	1.5	8×16	0.20	100
	1.8	8×12	0.20	95
	1.8	8×16	0.20	120
	2.2	8×12	0.20	100
	2.2	8×16	0.20	140
	2.8	8×16	0.20	145
	3.3	8×16	0.20	150
	3.3	10×16	0.20	180
	4.7	8×20	0.20	198
	4.7	10×16	0.20	220
	5.6	8×20	0.20	225
	5.6	10×16	0.20	250
	6.8	8×20	0.20	252
	6.8	10×16	0.20	265
	8.2	10×16	0.20	288
	8.2	10×20	0.20	294
	10	10×20	0.20	350
	15	12.5×20	0.20	550
	22	12.5×25	0.20	760
	22	16×20	0.20	760
	33	16×20	0.20	900
	33	16×25	0.20	1125
	47	16×30	0.20	1180
	47	18×25	0.20	1180
	56	18×25	0.20	1476
	68	18×30	0.20	1547
100	18×40	0.20	1718	

WV (Vdc)	Cap (μF)	Case size ΦD×L(mm)	tan δ	Ripple current mArms/105°C,100kHz
450(2W)	1	8×12	0.20	82
	1.5	8×12	0.20	88
	1.8	8×12	0.20	90
	2.2	8×16	0.20	96
	2.8	8×16	0.20	119
	3.3	8×16	0.20	128
	4.7	10×16	0.20	180
	5.6	10×20	0.20	250
	6.8	10×20	0.20	265
	8.2	10×20	0.20	280
	10	10×25	0.20	330
	15	12.5×20	0.20	450
	22	12.5×25	0.20	600
	22	16×20	0.20	730
	33	16×25	0.20	980
	47	16×35	0.20	1080
	47	18×25	0.20	1200
	56	18×30	0.20	1429
	68	18×35	0.20	1500
	100	18×40	0.20	1666
500(2H)	10	12.5×20	0.24	320
	10	12.5×25	0.24	336
	15	12.5×25	0.24	440
	15	16×20	0.24	440
	22	12.5×35	0.24	560
	22	16×25	0.24	560
	33	18×25	0.24	700
47	18×30	0.24	880	