

PERFORMANCE CHARACTERISTICS (continued)

1. General Characteristics

1.1 Marking

Capacitors shall be marked with YAGEO mark ; rated capacitance ; rated DC working voltage . and the date code of manufacture . The cathode terminal or lead will be identified with minus signs (-) on the side of the case.

1.2 Operating Temperature Range

These capacitors are designed to operate over a temperature range of -40°C to +105°C , for rated voltage up to 100V , and -25°C to +105°C for rated voltage 160V to 450V .

1.2.1 At -40 (-25) °C , capacitance shall retain at least 70% of their initial value measured

@20°C , At 85°C capacitance shall increase to no more than 120% of their initial value measured @25°C

1.2.2 At -40 (-25) °C , impedance shall increase to no more than the following table.

Rated Voltage (V)	6.3-16	25	35	50-63	80-100	160-400	450
Z(-25°C)/z(20°C)	4	3	3	2	2	4	8
Z(-40°C)/z(20°C)	15	10	8	6	5	---	---

1.3 Vent Test

During and after applicable test (sec. 1.3.1 or 1.3.2) there shall be no explosion , flash flame or expulsion articles of the core or container . In addition , the case shall not be expelled from the core . If the capacitor under the test is a multisection unit, this test shall apply to input section only. Both of the following tests shall be performed , but on separate test units.

1.3.1 Forward Bias Test

The capacitor under test shall be connected to a DC power supply that has sufficient voltage to supply a constant direct current of 500 milliamperes with the positive terminal of the capacitor connected to positive supply terminal and the negative capacitor terminal connected to the negative supply terminal . The constant current shall be maintained until (1) the capacitor vents , (2) 300 seconds have elapsed , or (3) the capacitor under test open circuits .

PERFORMANCE CHARACTERISTICS (continued)

1.3.2 Reverse Bias Test

The capacitor under test shall be connected to a power supply with sufficient voltage to provide a constant direct current of 500 milliamperes when the positive capacitor terminal is connected to the negative supply terminal and the negative capacitor terminal to positive supply terminal. The constant current shall be maintained until (1) the capacitor vents , (2) 300 seconds have elapsed , or (3) the capacitor under open circuits.

2. Mechanical Characteristic

2.1 Lead Pull Test

Capacitor leads shall withstand a steady pull of 2.5kg applied axially to the leads for 5 seconds.

3. Electrical Characteristics

3.1 Standard Test Conditions

Unless otherwise specified all tests shall be performed at, or referred to, an ambient temperature of 20°C and a relative humidity not greater than 50%

3.2 Capacitance and Dissipation Factor

Measurement shall be made on capacitance bridge capable of $\pm 2\%$ accuracy on capacitance and dissipation factor measurements. Measurements shall be at 120Hz . The RMS value of the AC measuring voltage shall not exceed 1.0 volt .

3.3 Leakage Current

3.3.1 Pre-conditioning . Rated working voltage shall be applied to capacitors for a minimum period of 15 minutes duration at least 24 hours and not more than 48 hours before test.

3.3.2 Test . Measurements shall be made after a 2 minutes charge at rated working voltage at 20°C with an application of a steady source of power. Such as a regular power supply, with a 1000 ohm resistance to limit the charging current , connected in series with each capacitor under test .

3.4 Surge Voltage

The surge DC rating is the maximum voltage to which the capacitor should be subjected under any conditions. This includes transients and peak ripple at the highest line voltage .

PERFORMANCE CHARACTERISTICS (continued)

3.4.1 Capacitors , connected in series with 1000 ohm resistors , shall withstand the surge test voltage applied at the rated of 1/2 minute on, 5 1/2 minutes off, for 1000 successive test cycles at 20°C . (see the following table)

Rated Voltage (v)	6.3	10	16	25	35	50	63	80	100	160	180	200	250	350	400	450
Surge Voltage (v)	8	13	20	32	44	63	79	100	125	200	225	250	300	400	450	500

3.4.2 After the test, the capacitors shall must meet the requirement specified in the following table .

Test	Value after test
Leakage Current	Not more than the initial value specified
Capacitance Change	More than +-20% of the value before test
Dissipation Factor	Not more than 200% of the initial values specified

3.5 Humidity Test

Capacitors shall be subjected to a temperature of 40±2°C at a relative humidity of 90 to 95% for a period of 500 hours , then air dried for 1 hour. Follow this condition , capacitors shall meet the specified requirements for dissipation factor and DC leakage current , and the capacitance value shall not change than 10% .

4. Life and reliability Test

4.1 Life Test

4.1.1 Rated voltage with full rated ripple current shall be applied to the capacitors for period if 2000 hours while units are maintained at an ambient temperature of +105°C

4.1.2 Capacitors shall then be removed from the test chamber and return to room temperature

4.1.3 The capacitance shall then be measured in accordance with section 3.2 capacitance shall not decrease to less than 80% of the capacitance at 20°C , measured prior to the test , nor shall it increase to more than 120% of the original 20°C value.

4.1.4 The dissipation factor shall be measured in accordance with section 3.2 . The dissipation factor shall not exceed 200% of the initial requirement.

4.1.5 At the conclusion of the test, the leakage current shall not exceed the initial DC leakage

PERFORMANCE CHARACTERISTICS (continued)

current requirement . Measurement shall be made in accordance with section 3.3

4.2 Shelf Test

After storage for 1000 hours at 105°C with no voltage applied, the capacitance and dissipation factor shall meet the initial requirements of section 4.1.3 and 4.1.4 ; the DC leakage current measured in accordance with section 3.3 shall not 150% of the initial requirement.

GUIDE TO APPLICATION

1. Maximum Ripple Current

1.1 Maximum rms ripple current at 105°C 120Hz is given in the table.

1.2 When capacitors are operated at temperature other than 105°C , the permissible 120Hz rms ripple current limit can be calculated using the multiplication factors shown below :

Ambient Temp. (°C)	40	60	70	85	105
----------------------	----	----	----	----	-----

Factors	2.47	2.37	2.17	1.67	1.0
---------	------	------	------	------	-----

1.3 When capacitors are operated at frequency other than 120Hz , the permissible rms ripple current limit can be calculated using the multiplication factors shown below :

Frequency (Hz)	50	60	120	1k	10-10k
16-100 (V)	0.88	0.90	1.0	1.15	1.16
160-250 (V)	0.85	0.88	1.0	1.15	1.20
315-450 (V)	0.88	0.90	1.0	1.10	1.15

2. Ripple Voltage

2.1 Ripple voltage must not exceed the sum of the DC voltage plus the AC ripple voltage must not exceed the rated DC voltage . The DC voltage plus the peak AC voltage must not cause a voltage reversal more than 1.5 volts.

3. Insulating

General types of aluminum electrolytic capacitors are covered with a vinyl sleeve or the like. And this sleeve is used for marking. When the internal element or the container is needed to be insulated , capacitors specially designed for insulation requirement are recommended to be used .

4. Soldering

2.2 When soldering a printed circuit board with various components, too high soldering temperature or too long dipping times may cause secondary shrinking of the sleeve which unnecessarily exposes the container.

Soldering is allowed to performed at less than 260°C for less than 10 seconds .

2.3 Soldering may melt or break the sleeve, if sleeve is contacted with circuit patterns. To avoid this trouble , the capacitors are recommended to be slightly apart from the circuit boards.

GUIDE TO APPLICATION (continued)

5. Solderability

The solderability requirements shall be under soldering temperature at $235\pm 2^{\circ}\text{C}$, and soldering time 2 ± 0.1 seconds .

6. Vent

The capacitors are provided with a pressure resistive controlled safety vent formed on the bottom of the container . The vent is designed to rupture in the event that higher internal pressure developed by circuit malfunction or capacitor mis-use.

7. High Altitude

These capacitors are capable of withstanding in transit conditions where storage temperature may range from -40°C to $+105^{\circ}\text{C}$ and altitude may reach 200,000 feet.

8. Cleaning Agents

Halogenated hydrocarbon cleaning solvents are not recommended for use in cleaning capacitors supplied with exposed end seals . Where cleaning with a halogenated solvent is desired , capacitors should be ordered with a epoxy-coated end seal.

YAGEO Snap-in Type E/C Ordering Code

1. For worldwide customers use only
2. For standard specification use only

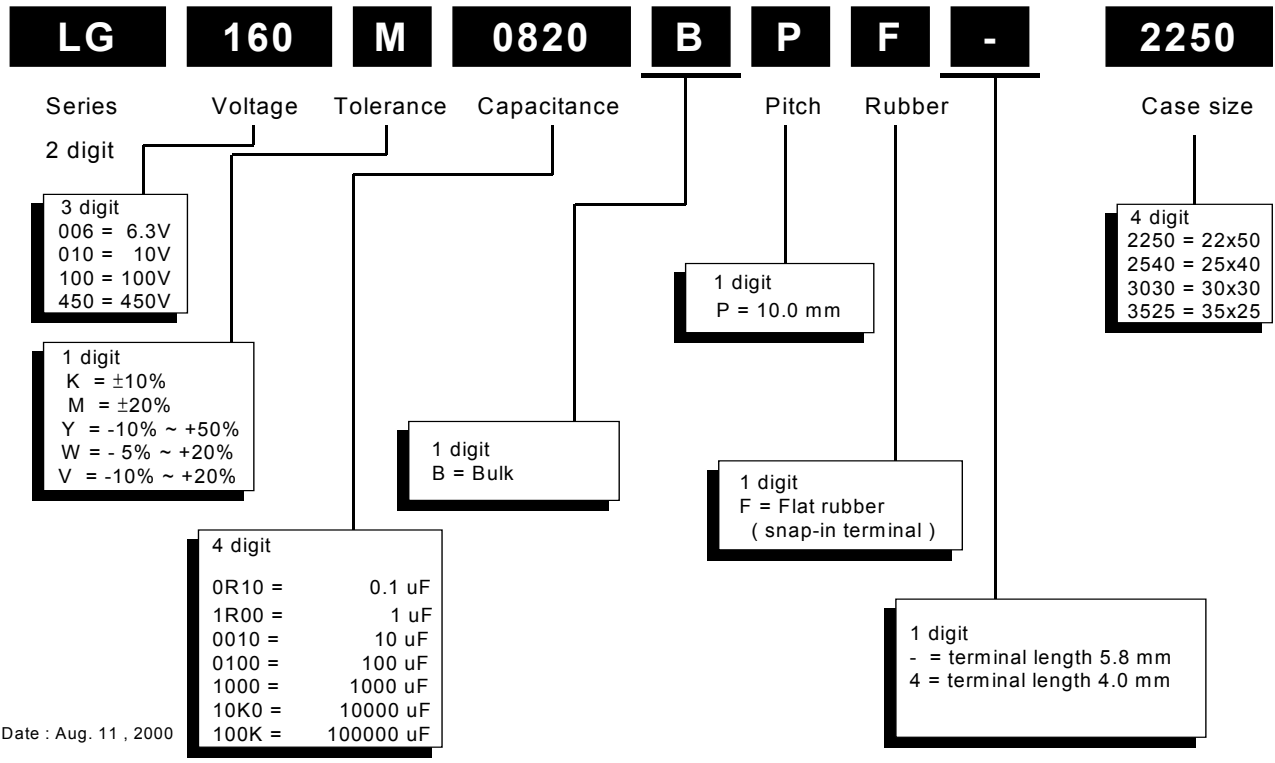


Diagram of Dimensions:

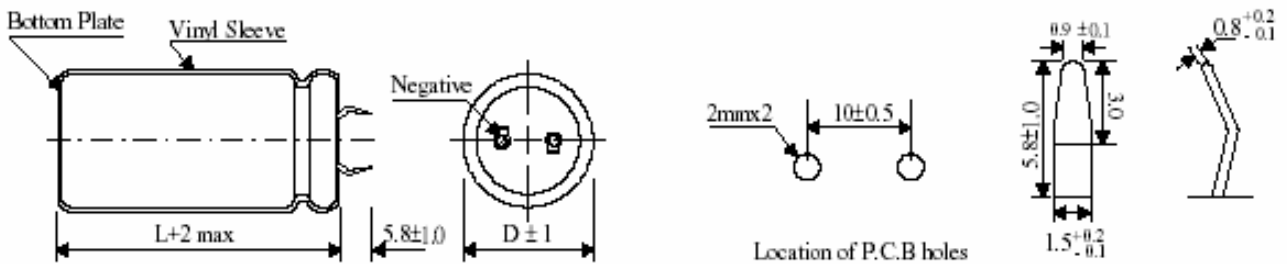


Table 1-1 LG Type, Standard Ratings and Catalog Number (LIFE : 105°C,2000Hr.)

Catalog Number	Capacitance (uF)	Rated Voltage (V.DC)	Size (mm) D X L	Leakage Current (uA)	Dissipation Factor (Tan δ)	Ripple 120 Hz (mA)
LG006M12K0BPF-2225	12000	6.3	22X25	1512	0.60	1550
LG006M15K0BPF-2230	15000	6.3	22X30	1890	0.60	1700
LG006M15K0BPF-2525	15000	6.3	25X25	1890	0.60	1700
LG006M18K0BPF-2230	18000	6.3	22X30	2268	0.60	1950
LG006M18K0BPF-2525	18000	6.3	25X25	2268	0.60	1950
LG006M22K0BPF-2235	22000	6.3	22X35	2772	0.60	2250
LG006M22K0BPF-2530	22000	6.3	25X30	2772	0.60	2250
LG006M22K0BPF-3025	22000	6.3	30X25	2772	0.60	2250
LG006M27K0BPF-2240	27000	6.3	22X40	3000	0.60	2550
LG006M27K0BPF-2535	27000	6.3	25X35	3000	0.60	2550
LG006M27K0BPF-3030	27000	6.3	30X30	3000	0.60	2550
LG006M27K0BPF-3525	27000	6.3	35X25	3000	0.60	2550
LG006M33K0BPF-2245	33000	6.3	22X45	3000	0.60	2900
LG006M33K0BPF-2540	33000	6.3	25X40	3000	0.60	2950
LG006M33K0BPF-3030	33000	6.3	30X30	3000	0.60	2900
LG006M33K0BPF-3525	33000	6.3	35X25	3000	0.60	2950
LG006M39K0BPF-2550	39000	6.3	25X50	3000	0.60	3250
LG006M39K0BPF-3035	39000	6.3	30X35	3000	0.60	3250
LG006M39K0BPF-3530	39000	6.3	35X30	3000	0.60	3300
LG006M47K0BPF-2550	47000	6.3	25X50	3000	0.60	3700
LG006M47K0BPF-3040	47000	6.3	30X40	3000	0.60	3700
LG006M56K0BPF-3045	56000	6.3	30X45	3000	0.60	4150
LG006M56K0BPF-3535	56000	6.3	35X35	3000	0.60	4100
LG006M68K0BPF-3050	68000	6.3	30X50	3000	0.60	4700
LG006M68K0BPF-3540	68000	6.3	35X40	3000	0.60	4700
LG006M82K0BPF-3545	82000	6.3	35X45	3000	0.60	5300
LG010M10K0BPF-2225	10000	10	22X25	2000	0.55	1550
LG010M12K0BPF-2230	12000	10	22X30	2400	0.55	1750
LG010M15K0BPF-2230	15000	10	22X30	3000	0.55	1900
LG010M15K0BPF-2525	15000	10	25X25	3000	0.55	1900
LG010M18K0BPF-2235	18000	10	22X35	3000	0.55	2200
LG010M18K0BPF-2530	18000	10	25X30	3000	0.55	2250
LG010M22K0BPF-2240	22000	10	22X40	3000	0.55	2500
LG010M22K0BPF-2535	22000	10	25X35	3000	0.55	2550
LG010M22K0BPF-3025	22000	10	30X25	3000	0.55	2450
LG010M27K0BPF-2250	27000	10	22X50	3000	0.55	2950
LG010M27K0BPF-2540	27000	10	25X40	3000	0.55	2900
LG010M27K0BPF-3030	27000	10	30X30	3000	0.55	2850
LG010M27K0BPF-3525	27000	10	35X25	3000	0.55	2800
LG010M33K0BPF-2545	33000	10	25X45	3000	0.55	3300
LG010M33K0BPF-3035	33000	10	30X35	3000	0.55	3300
LG010M33K0BPF-3530	33000	10	35X30	3000	0.55	3300

Table 1-2 LG Type, Standard Ratings and Catalog Number (LIFE : 105°C,2000Hr.)

Catalog Number	Capacitance (uF)	Rated Voltage (V.DC)	Size (mm) D X L	Leakage Current (uA)	Dissipation Factor (Tan δ)	Ripple 120 Hz (mA)
LG010M39K0BPF-2550	39000	10	25X50	3000	0.55	3700
LG010M39K0BPF-3040	39000	10	30X40	3000	0.55	3700
LG010M39K0BPF-3530	39000	10	35X30	3000	0.55	3650
LG010M47K0BPF-3045	47000	10	30X45	3000	0.55	4200
LG010M47K0BPF-3535	47000	10	35X35	3000	0.55	3800
LG010M56K0BPF-3050	56000	10	30X50	3000	0.55	4650
LG010M56K0BPF-3540	56000	10	35X40	3000	0.55	4650
LG010M68K0BPF-3550	68000	10	35X50	3000	0.55	5500
LG016M6800BPF-2225	6800	16	22X25	2176	0.55	1550
LG016M8200BPF-2230	8200	16	22X30	2624	0.55	1700
LG016M8200BPF-2525	8200	16	25X25	2624	0.55	1700
LG016M10K0BPF-2230	10000	16	22X30	3000	0.55	1950
LG016M10K0BPF-2525	10000	16	25X25	3000	0.55	1950
LG016M12K0BPF-2235	12000	16	22X35	3000	0.55	2200
LG016M12K0BPF-2530	12000	16	25X30	3000	0.55	2250
LG016M12K0BPF-3025	12000	16	30X25	3000	0.55	2300
LG016M15K0BPF-2240	15000	16	22X40	3000	0.55	2550
LG016M15K0BPF-2535	15000	16	25X35	3000	0.55	2600
LG016M15K0BPF-3030	15000	16	30X30	3000	0.55	2600
LG016M15K0BPF-3525	15000	16	35X25	3000	0.55	2650
LG016M18K0BPF-2245	18000	16	22X45	3000	0.55	2900
LG016M18K0BPF-2540	18000	16	25X40	3000	0.55	2900
LG016M18K0BPF-3030	18000	16	30X30	3000	0.55	2900
LG016M18K0BPF-3525	18000	16	35X25	3000	0.55	2950
LG016M22K0BPF-2545	22000	16	25X45	3000	0.55	3300
LG016M22K0BPF-3035	22000	16	30X35	3000	0.55	3300
LG016M22K0BPF-3530	22000	16	35X30	3000	0.55	3300
LG016M27K0BPF-2550	27000	16	25X50	3000	0.55	3800
LG016M27K0BPF-3040	27000	16	30X40	3000	0.55	3750
LG016M27K0BPF-3530	27000	16	35X30	3000	0.55	3750
LG016M33K0BPF-3045	33000	16	30X45	3000	0.55	4300
LG016M33K0BPF-3535	33000	16	35X35	3000	0.55	4250
LG016M39K0BPF-3050	39000	16	30X50	3000	0.55	4800
LG016M39K0BPF-3540	39000	16	35X40	3000	0.55	4800
LG016M47K0BPF-3545	47000	16	35X45	3000	0.55	5450
LG025M4700BPF-2225	4700	25	22X25	2350	0.45	1500
LG025M5600BPF-2230	5600	25	22X30	2800	0.45	1650
LG025M5600BPF-2525	5600	25	25X25	2800	0.45	1650
LG025M6800BPF-2230	6800	25	22X30	3000	0.45	1850
LG025M6800BPF-2525	6800	25	25X25	3000	0.45	1850
LG025M8200BPF-2235	8200	25	22X35	3000	0.45	2100
LG025M8200BPF-2530	8200	25	25X30	3000	0.45	2100

Table 1-3 LG Type, Standard Ratings and Catalog Number (LIFE : 105°C,2000Hr.)

Catalog Number	Capacitance (uF)	Rated Voltage (V.DC)	Size (mm)	Leakage Current (uA)	Dissipation Factor (Tan δ)	Ripple 120 Hz (mA)
			D X L			
LG025M8200BPF-3025	8200	25	30X25	3000	0.45	2150
LG025M10K0BPF-2240	10000	25	22X40	3000	0.45	2400
LG025M10K0BPF-2535	10000	25	25X35	3000	0.45	2400
LG025M10K0BPF-3030	10000	25	30X30	3000	0.45	2400
LG025M10K0BPF-3525	10000	25	35X25	3000	0.45	2400
LG025M12K0BPF-2245	10000	25	22X45	3000	0.45	2700
LG025M12K0BPF-2540	12000	25	25X40	3000	0.45	2750
LG025M12K0BPF-3030	12000	25	30X30	3000	0.45	2700
LG025M12K0BPF-3525	12000	25	35X25	3000	0.45	2750
LG025M15K0BPF-2545	15000	25	25X45	3000	0.45	3150
LG025M15K0BPF-3035	15000	25	30X35	3000	0.45	3150
LG025M15K0BPF-3530	15000	25	35X30	3000	0.45	3250
LG025M18K0BPF-2550	18000	25	25X50	3000	0.45	3550
LG025M18K0BPF-3040	18000	25	30X40	3000	0.45	3550
LG025M18K0BPF-3535	18000	25	35X35	3000	0.45	3550
LG025M22K0BPF-3045	22000	25	30X45	3000	0.45	4050
LG025M22K0BPF-3535	22000	25	35X35	3000	0.45	3800
LG025M27K0BPF-3545	27000	25	35X45	3000	0.45	4700
LG025M33K0BPF-3550	33000	25	35X50	3000	0.45	5400
LG035M3300BPF-2225	3300	35	22X25	2310	0.35	1400
LG035M3900BPF-2230	3900	35	22X30	2730	0.35	1550
LG035M3900BPF-2525	3900	35	25X25	2730	0.35	1550
LG035M4700BPF-2235	4700	35	22X35	3000	0.35	1800
LG035M4700BPF-2525	4700	35	25X25	3000	0.35	1800
LG035M5600BPF-2235	5600	35	22X35	3000	0.35	1950
LG035M5600BPF-2530	5600	35	25X30	3000	0.35	1950
LG035M5600BPF-3025	5600	35	30X25	3000	0.35	2000
LG035M6800BPF-2240	6800	35	22X40	3000	0.35	2200
LG035M6800BPF-2535	6800	35	25X35	3000	0.35	2250
LG035M6800BPF-3030	6800	35	30X30	3000	0.35	2300
LG035M6800BPF-3525	6800	35	35X25	3000	0.35	2350
LG035M8200BPF-2250	8200	35	22X50	3000	0.35	2550
LG035M8200BPF-2540	8200	35	25X40	3000	0.35	2500
LG035M8200BPF-3030	8200	35	30X30	3000	0.35	2750
LG035M8200BPF-3525	8200	35	35X25	3000	0.35	2750
LG035M10K0BPF-2545	10000	35	25X45	3000	0.35	2850
LG035M10K0BPF-3035	10000	35	30X35	3000	0.35	2900
LG035M10K0BPF-3530	10000	35	35X30	3000	0.35	2950
LG035M12K0BPF-2550	12000	35	25X50	3000	0.35	3250
LG035M12K0BPF-3040	12000	35	30X40	3000	0.35	3250
LG035M12K0BPF-3530	12000	35	35X30	3000	0.35	3150
LG035M15K0BPF-3045	15000	35	30X45	3000	0.35	3700

Table 1-4 LG Type, Standard Ratings and Catalog Number (LIFE : 105°C,2000Hr.)

Catalog Number	Capacitance (uF)	Rated Voltage (V.DC)	Size (mm) D X L	Leakage Current (uA)	Dissipation Factor (Tan δ)	Ripple 120 Hz (mA)
LG035M15K0BPF-3535	15000	35	35X35	3000	0.35	3650
LG035M18K0BPF-3540	18000	35	35X40	3000	0.35	4350
LG035M22K0BPF-3550	22000	35	35X50	3000	0.35	4900
LG050M1800BPF-2225	1800	50	22X25	1800	0.30	1300
LG050M2200BPF-2230	2200	50	22X30	2200	0.30	1550
LG050M2200BPF-2525	2200	50	25X25	2200	0.30	1550
LG050M2700BPF-2230	2700	50	22X30	2700	0.30	1700
LG050M2700BPF-2525	2700	50	25X25	2700	0.30	1700
LG050M3300BPF-2235	3300	50	22X35	3000	0.30	1950
LG050M3300BPF-2530	3300	50	25X30	3000	0.30	1850
LG050M3900BPF-2240	3900	50	22X40	3000	0.30	2150
LG050M3900BPF-2535	3900	50	25X35	3000	0.30	2200
LG050M3900BPF-3025	3900	50	30X25	3000	0.30	1950
LG050M4700BPF-2245	4700	50	22X45	3000	0.30	2450
LG050M4700BPF-2540	4700	50	25X40	3000	0.30	2450
LG050M4700BPF-3030	4700	50	30X30	3000	0.30	2450
LG050M4700BPF-3525	4700	50	35X25	3000	0.30	2500
LG050M5600BPF-2250	5600	50	22X50	3000	0.30	2750
LG050M5600BPF-2540	5600	50	25X40	3000	0.30	2700
LG050M5600BPF-3035	5600	50	30X35	3000	0.30	2750
LG050M5600BPF-3530	5600	50	35X30	3000	0.30	2750
LG050M6800BPF-2550	6800	50	25X50	3000	0.30	3300
LG050M6800BPF-3040	6800	50	30X40	3000	0.30	3300
LG050M6800BPF-3530	6800	50	35X30	3000	0.30	3250
LG050M8200BPF-3045	8200	50	30X45	3000	0.30	3600
LG050M8200BPF-3530	8200	50	35X30	3000	0.30	3170
LG050M8200BPF-3535	8200	50	35X35	3000	0.30	3550
LG050M10K0BPF-3040	10000	50	30X40	3000	0.30	3450
LG050M10K0BPF-3050	10000	50	30X50	3000	0.30	4050
LG050M10K0BPF-3540	10000	50	35X40	3000	0.30	4000
LG050M12K0BPF-3535	12000	50	35X35	3000	0.52	3800
LG050M12K0BPF-3545	12000	50	35X45	3000	0.30	4550
LG063M1000BPF-2225	1000	63	22X25	1260	0.25	1100
LG063M1200BPF-2225	1200	63	22X25	1512	0.25	1200
LG063M1500BPF-2230	1500	63	22X30	1890	0.25	1300
LG063M1500BPF-2525	1500	63	25X25	1890	0.25	1300
LG063M1800BPF-2230	1800	63	22X30	2268	0.25	1500
LG063M1800BPF-2525	1800	63	25X25	2268	0.25	1500
LG063M2200BPF-2235	2200	63	22X35	2772	0.25	1700
LG063M2200BPF-2530	2200	63	25X30	2772	0.25	1750
LG063M2200BPF-3025	2200	63	30X25	2772	0.25	1800
LG063M2700BPF-2240	2700	63	22X40	3000	0.25	2000
LG063M2700BPF-2535	2700	63	25X35	3000	0.25	2000

Table 1-5 LG Type, Standard Ratings and Catalog Number (LIFE : 105°C,2000Hr.)

Catalog Number	Capacitance (Uf)	Rated Voltage (V.DC)	Size (mm) D X L	Leakage Current (Ua)	Dissipation Factor (Tan δ)	Ripple 120 Hz (Ma)
LG063M2700BPF-3025	2700	63	30X25	3000	0.25	1950
LG063M3300BPF-2250	3300	63	22X50	3000	0.25	2300
LG063M3300BPF-2540	3300	63	25X40	3000	0.25	2300
LG063M3300BPF-3030	3300	63	30X30	3000	0.25	2250
LG063M3300BPF-3525	3300	63	35X25	3000	0.25	2100
LG063M3900BPF-2545	3900	63	25X45	3000	0.25	2550
LG063M3900BPF-3035	3900	63	30X35	3000	0.25	2550
LG063M3900BPF-3530	3900	63	35X30	3000	0.25	2550
LG063M4700BPF-2550	4700	63	25X50	3000	0.25	2850
LG063M4700BPF-3040	4700	63	30X40	3000	0.25	2850
LG063M4700BPF-3530	4700	63	35X30	3000	0.25	2800
LG063M5600BPF-3045	5600	63	30X45	3000	0.25	3200
LG063M5600BPF-3535	5600	63	35X35	3000	0.25	3200
LG063M6800BPF-3050	6800	63	30X50	3000	0.25	3650
LG063M6800BPF-3540	6800	63	35X40	3000	0.25	3650
LG063M8200BPF-3545	8200	63	35X45	3000	0.25	3900
LG063M10K0BPF-3550	10000	63	35X50	3000	0.25	4400
LG080M0820BPF-2225	820	80	22X25	1312	0.25	1100
LG080M1000BPF-2230	1000	80	22X30	1600	0.25	1200
LG080M1000BPF-2525	1000	80	25X25	1600	0.25	1200
LG080M1200BPF-2230	1200	80	22X30	1920	0.25	1400
LG080M1200BPF-2525	1200	80	25X25	1920	0.25	1400
LG080M1500BPF-2235	1500	80	22X35	2400	0.25	1600
LG080M1500BPF-2530	1500	80	25X30	2400	0.25	1600
LG080M1500BPF-3025	1500	80	30X25	2400	0.25	1650
LG080M1800BPF-2240	1800	80	22X40	2880	0.25	1800
LG080M1800BPF-2535	1800	80	25X35	2880	0.25	1850
LG080M1800BPF-3025	1800	80	30X25	3000	0.25	1800
LG080M2200BPF-2245	2200	80	22X45	3000	0.25	2050
LG080M2200BPF-2535	2200	80	25X35	3000	0.25	2000
LG080M2200BPF-3030	2200	80	30X30	3000	0.25	2050
LG080M2200BPF-3525	2200	80	35X25	3000	0.25	2050
LG080M2700BPF-2545	2700	80	25X45	3000	0.25	2350
LG080M2700BPF-3035	2700	80	30X35	3000	0.25	2350
LG080M2700BPF-3530	2700	80	35X30	3000	0.25	2350
LG080M3300BPF-2550	3300	80	25X50	3000	0.25	2700
LG080M3300BPF-3040	3300	80	30X40	3000	0.25	2700
LG080M3300BPF-3530	3300	80	35X30	3000	0.25	2550
LG080M3900BPF-3045	3900	80	30X45	3000	0.25	3000
LG080M3900BPF-3535	3900	80	35X35	3000	0.25	3000
LG080M4700BPF-3050	4700	80	30X50	3000	0.25	3400
LG080M4700BPF-3540	4700	80	35X40	3000	0.25	3400
LG080M5600BPF-3545	5600	80	35X45	3000	0.25	3800

Table 1-6 LG Type, Standard Ratings and Catalog Number (LIFE : 105°C,2000Hr.)

Catalog Number	Capacitance (uF)	Rated Voltage (V.DC)	Size (mm) D X L	Leakage Current (uA)	Dissipation Factor (Tan δ)	Ripple 120 Hz (mA)
LG080M6800BPF-3550	6800	80	35X50	3000	0.25	3900
LG080M8200BPF-3560	8200	80	35X60	3000	0.25	4000
LG100M0560BPF-2225	560	100	22X25	1120	0.25	1050
LG100M0680BPF-2225	680	100	22X25	1360	0.25	1200
LG100M0820BPF-2230	820	100	22X30	1640	0.25	1300
LG100M0820BPF-2525	820	100	25X25	1640	0.25	1330
LG100M1000BPF-2235	1000	100	22X35	2000	0.25	1500
LG100M1000BPF-2530	1000	100	25X30	2000	0.25	1500
LG100M1200BPF-2240	1200	100	22X40	2400	0.25	1700
LG100M1200BPF-2535	1200	100	25X35	2400	0.25	1700
LG100M1200BPF-3025	1200	100	30X25	2400	0.25	1700
LG100M1500BPF-2245	1500	100	22X45	3000	0.25	1950
LG100M1500BPF-2540	1500	100	25X40	3000	0.25	2000
LG100M1500BPF-3030	1500	100	30X30	3000	0.25	1950
LG100M1500BPF-3525	1500	100	35X25	3000	0.25	2000
LG100M1800BPF-2545	1800	100	25X45	3000	0.25	2200
LG100M1800BPF-3035	1800	100	30X35	3000	0.25	2500
LG100M1800BPF-3530	1800	100	35X30	3000	0.25	2450
LG100M2200BPF-2550	2200	100	25X50	3000	0.25	2550
LG100M2200BPF-3040	2200	100	30X40	3000	0.25	2700
LG100M2200BPF-3530	2200	100	35X30	3000	0.25	2550
LG100M2700BPF-3045	2700	100	30X45	3000	0.25	2900
LG100M2700BPF-3535	2700	100	35X35	3000	0.25	2850
LG100M3300BPF-3050	3300	100	30X50	3000	0.25	3250
LG100M3300BPF-3540	3300	100	35X40	3000	0.25	3250
LG100M3900BPF-3545	3900	100	35X45	3000	0.25	3700
LG100M4700BPF-3050	4700	100	30X50	3000	0.25	3800
LG100M4700BPF-3550	4700	100	35X50	3000	0.25	3800
LG160M0220BPF-2220	220	160	22X20	704	0.15	800
LG160M0270BPF-2225	270	160	22X25	864	0.15	1000
LG160M0330BPF-2225	330	160	22X25	1056	0.15	1200
LG160M0330BPF-2520	330	160	25X20	1056	0.15	1150
LG160M0390BPF-2230	390	160	22X30	1248	0.15	1300
LG160M0390BPF-2525	390	160	25X25	1248	0.15	1300
LG160M0470BPF-2235	470	160	22X35	1504	0.15	1400
LG160M0470BPF-2230	470	160	22X30	2256	0.15	1300
LG160M0470BPF-2525	470	160	25X25	1504	0.15	1400
LG160M0560BPF-2240	560	160	22X40	1792	0.15	1500
LG160M0560BPF-2530	560	160	25X30	1792	0.15	1500
LG160M0560BPF-3025	560	160	30X25	1792	0.15	1500
LG160M0680BPF-2240	680	160	22X40	2176	0.15	1500
LG160M0680BPF-2245	680	160	22X45	2176	0.15	1700
LG160M0680BPF-2535	680	160	25X35	2176	0.15	1700

Table 1-7 LG Type, Standard Ratings and Catalog Number (LIFE : 105°C,2000Hr.)

Catalog Number	Capacitance (Uf)	Rated Voltage (V.DC)	Size (mm) D X L	Leakage Current (Ua)	Dissipation Factor (Tan δ)	Ripple 120 Hz (Ma)
LG160M0680BPF-3025	680	160	30X25	2176	0.15	1700
LG160M0820BPF-2250	820	160	22X50	2624	0.15	1950
LG160M0820BPF-2540	820	160	25X40	2624	0.15	2000
LG160M0820BPF-3030	820	160	30X30	2624	0.15	2000
LG160M0820BPF-3525	820	160	35X25	2624	0.15	1900
LG160M1000BPF-2545	1000	160	25X45	3000	0.15	2200
LG160M1000BPF-3035	1000	160	30X35	3000	0.15	2200
LG160M1000BPF-3530	1000	160	35X30	3000	0.15	2200
LG160M1200BPF-2550	1200	160	25X50	3000	0.15	2450
LG160M1200BPF-3040	1200	160	30X40	3000	0.15	2450
LG160M1200BPF-3530	1200	160	35X30	3000	0.15	2450
LG160M1500BPF-3045	1500	160	30X45	3000	0.15	2800
LG160M1500BPF-3535	1500	160	35X35	3000	0.15	2800
LG160M1800BPF-3050	1800	160	30X50	3000	0.15	3300
LG160M1800BPF-3545	1800	160	35X45	3000	0.15	3300
LG160M2200BPF-3550	2200	160	35X50	3000	0.15	3750
LG180M0180BPF-2220	180	180	22X20	648	0.15	750
LG180M0220BPF-2225	220	180	22X25	792	0.15	850
LG180M0270BPF-2225	270	180	22X25	972	0.15	950
LG180M0270BPF-2520	270	180	25X20	972	0.15	900
LG180M0330BPF-2230	330	180	22X30	1188	0.15	1100
LG180M0330BPF-2525	330	180	25X25	1188	0.15	1100
LG180M0390BPF-2230	390	180	22X30	1404	0.15	1300
LG180M0390BPF-2525	390	180	25X25	1404	0.15	1300
LG180M0470BPF-2230	470	180	22X30	2538	0.15	1300
LG180M0470BPF-2235	470	180	22X35	1692	0.15	1350
LG180M0470BPF-2530	470	180	25X30	1692	0.15	1400
LG180M0470BPF-3025	470	180	30X25	1692	0.15	1400
LG180M0560BPF-2240	560	180	22X40	2016	0.15	1500
LG180M0560BPF-2535	560	180	25X35	2016	0.15	1550
LG180M0560BPF-3025	560	180	30X25	2016	0.15	1500
LG180M0680BPF-2245	680	180	22X45	2248	0.15	1700
LG180M0680BPF-2250	680	180	22X50	2248	0.15	1700
LG180M0680BPF-2535	680	180	25X35	2448	0.15	1700
LG180M0680BPF-2540	680	180	25X40	2248	0.15	1750
LG180M0680BPF-3030	680	180	30X30	2248	0.15	1700
LG180M0680BPF-3525	680	180	35X25	2248	0.15	1700
LG180M0820BPF-2250	820	180	22X50	2952	0.15	1950
LG180M0820BPF-2540	820	180	25X40	2952	0.15	2000
LG180M0820BPF-2545	820	180	25X45	2952	0.15	2000
LG180M0820BPF-3035	820	180	30X35	2952	0.15	2000
LG180M0820BPF-3525	820	180	35X25	2952	0.15	1900
LG180M1000BPF-2545	1000	180	25X45	3000	0.15	2200

Table 1-8 LG Type, Standard Ratings and Catalog Number (LIFE : 105°C,2000Hr.)

Catalog Number	Capacitance (Uf)	Rated Voltage (V.DC)	Size (mm) D X L	Leakage Current (Ua)	Dissipation Factor (Tan δ)	Ripple 120 Hz (Ma)
LG180M1000BPF-2550	1000	180	25X50	3000	0.15	2200
LG180M1000BPF-3035	1000	180	30X35	3000	0.15	2250
LG180M1000BPF-3040	1000	180	30X40	3000	0.15	2250
LG180M1000BPF-3530	1000	180	35X30	3000	0.15	2250
LG180M1200BPF-2550	1200	180	25X50	3000	0.15	2450
LG180M1200BPF-3040	1200	180	30X40	3000	0.15	2450
LG180M1200BPF-3045	1200	180	30X45	3000	0.15	2500
LG180M1200BPF-3535	1200	180	35X35	3000	0.15	2500
LG180M1500BPF-3050	1500	180	30X50	3000	0.15	2900
LG180M1500BPF-3540	1500	180	35X40	3000	0.15	2900
LG180M1500BPF-3045	1500	180	30X45	3000	0.15	2800
LG180M1800BPF-3050	1800	180	30X50	3000	0.15	3300
LG180M1800BPF-3550	1800	180	35X50	3000	0.15	3300
LG180M2200BPF-3550	2200	180	35X50	3000	0.15	3600
LG200M0150BPF-2220	150	200	22X20	600	0.15	650
LG200M0180BPF-2220	180	200	22X20	720	0.15	700
LG200M0220BPF-2225	220	200	22X25	880	0.15	800
LG200M0220BPF-2520	220	200	25X20	880	0.15	800
LG200M0270BPF-2225	270	200	22X25	1080	0.15	850
LG200M0270BPF-2525	270	200	25X25	1080	0.15	850
LG200M0330BPF-2230	330	200	22X30	1320	0.15	1200
LG200M0330BPF-2525	330	200	25X25	1320	0.15	1200
LG200M0390BPF-2230	390	200	22X30	1560	0.15	1300
LG200M0390BPF-2235	390	200	22X35	1560	0.15	1300
LG200M0390BPF-2530	390	200	25X30	1560	0.15	1300
LG200M0390BPF-3025	390	200	30X25	1560	0.15	1300
LG200M0470BPF-2235	470	200	22X35	2820	0.15	1400
LG200M0470BPF-2240	470	200	22X40	1880	0.15	1400
LG200M0470BPF-2530	470	200	25X30	1880	0.15	1400
LG200M0470BPF-3025	470	200	30X25	1880	0.15	1500
LG200M0560BPF-2245	560	200	22X45	2240	0.15	1550
LG200M0560BPF-2535	560	200	25X35	2240	0.15	1550
LG200M0560BPF-3030	560	200	30X30	2240	0.15	1550
LG200M0680BPF-2250	680	200	22X50	2720	0.15	1750
LG200M0680BPF-2540	680	200	25X40	2720	0.15	1750
LG200M0680BPF-3030	680	200	30X30	2720	0.15	1750
LG200M0680BPF-3525	680	200	35X25	2720	0.15	1700
LG200M0820BPF-2550	820	200	25X50	3000	0.15	2050
LG200M0820BPF-3035	820	200	30X35	3000	0.15	2000
LG200M0820BPF-3530	820	200	35X30	3000	0.15	2050
LG200M1000BPF-3040	1000	200	30X40	3000	0.15	2300
LG200M1000BPF-3045	1000	200	30X45	3000	0.15	2300
LG200M1000BPF-3530	1000	200	35X30	3000	0.15	2300

Table 1-9 LG Type, Standard Ratings and Catalog Number (LIFE : 105°C,2000Hr.)

Catalog Number	Capacitance (Uf)	Rated Voltage (V.DC)	Size (mm) D X L	Leakage Current (Ua)	Dissipation Factor (Tan δ)	Ripple 120 Hz (Ma)
LG200M1000BPF-3535	1000	200	35X35	3000	0.15	2300
LG200M1200BPF-3050	1200	200	30X50	3000	0.15	2600
LG200M1200BPF-3540	1200	200	35X40	3000	0.15	2650
LG200M1500BPF-3545	1500	200	35X45	3000	0.15	3100
LG200M1800BPF-3550	1800	200	35X50	3000	0.15	3150
LG200M2200BPF-3550	2200	200	35X50	3000	0.15	4800
LG200M2200BPF-3040	2200	220	30X40	3000	0.15	2200
LG200M2200BPF-3535	2200	220	35X35	3000	0.15	2300
LG250M0100BPF-2225	100	250	22X25	500	0.15	560
LG250M0120BPF-2220	120	250	22X20	600	0.15	600
LG250M0150BPF-2225	150	250	22X25	750	0.15	650
LG250M0180BPF-2225	180	250	22X25	900	0.15	800
LG250M0180BPF-2520	180	250	25X20	1350	0.15	750
LG250M0220BPF-2230	220	250	22X30	1100	0.15	950
LG250M0220BPF-2525	220	250	25X25	1100	0.15	950
LG250M0270BPF-2235	270	250	22X35	1350	0.15	1150
LG250M0270BPF-2530	270	250	25X30	1350	0.15	1150
LG250M0270BPF-3025	270	250	30X25	1350	0.15	1150
LG250M0330BPF-2240	330	250	22X40	1650	0.15	1250
LG250M0330BPF-2530	330	250	25X30	1650	0.15	1200
LG250M0330BPF-3025	330	250	30X25	1650	0.15	1250
LG250M0390BPF-2245	390	250	22X45	1950	0.15	1500
LG250M0390BPF-2535	390	250	25X35	1950	0.15	1500
LG250M0390BPF-3030	390	250	30X30	1950	0.15	1500
LG250M0470BPF-2250	470	250	22X50	2350	0.15	1550
LG250M0470BPF-2540	470	250	25X40	2350	0.15	1550
LG250M0470BPF-3030	470	250	30X30	2350	0.15	1550
LG250M0470BPF-3525	470	250	35X25	2350	0.15	1550
LG250M0560BPF-2545	560	250	25X45	2800	0.15	1800
LG250M0560BPF-3035	560	250	30X35	2800	0.15	1800
LG250M0560BPF-3530	560	250	35X30	2800	0.15	1800
LG250M0680BPF-2550	680	250	25X50	3000	0.15	1950
LG250M0680BPF-3040	680	250	30X40	3000	0.15	2000
LG250M0680BPF-3535	680	250	35X35	3000	0.15	2000
LG250M0820BPF-3045	820	250	30X45	3000	0.15	2150
LG250M0820BPF-3535	820	250	35X35	3000	0.15	2100
LG250M1000BPF-3045	1000	250	30X45	2500	0.15	2100
LG250M1000BPF-3540	1000	250	35X40	3000	0.15	2300
LG250M1200BPF-3535	1200	250	35X35	3000	0.15	2800
LG250M1500BPF-3550	1500	250	35X50	3000	0.15	3630
LG350M0056BPF-2220	56	350	22X20	588	0.15	400
LG350M0068BPF-2225	68	350	22X25	476	0.15	450

Table 1-10 LG Type, Standard Ratings and Catalog Number (LIFE : 105°C,2000Hr.)

Catalog Number	Capacitance (Uf)	Rated Voltage (V.DC)	Size (mm) D X L	Leakage Current (Ua)	Dissipation Factor (Tan δ)	Ripple 120 Hz (Ma)
LG350M0082BPF-2225	82	350	22X25	574	0.15	550
LG350M0082BPF-2520	82	350	25X20	860	0.15	500
LG350M0100BPF-2230	100	350	22X30	700	0.15	700
LG350M0100BPF-2525	100	350	25X25	700	0.15	700
LG350M0120BPF-2235	120	350	22X35	840	0.15	750
LG350M0120BPF-2530	120	350	25X30	840	0.15	750
LG350M0120BPF-3025	120	350	30X25	840	0.15	750
LG350M0150BPF-2240	150	350	22X40	1050	0.15	800
LG350M0150BPF-2530	150	350	25X30	1050	0.15	800
LG350M0150BPF-3025	150	350	30X25	1050	0.15	850
LG350M0180BPF-2245	180	350	22X45	1260	0.15	900
LG350M0180BPF-2535	180	350	25X35	1240	0.15	900
LG350M0180BPF-3030	180	350	30X30	1240	0.15	1000
LG350M0220BPF-2250	220	350	22X50	1540	0.15	1050
LG350M0220BPF-2540	220	350	25X40	1540	0.15	1050
LG350M0220BPF-3030	220	350	30X30	1540	0.15	1000
LG350M0220BPF-3525	220	350	35X25	1540	0.15	1050
LG350M0270BPF-2545	270	350	25X45	1890	0.15	1200
LG350M0270BPF-3035	270	350	30X35	1890	0.15	1200
LG350M0270BPF-3530	270	350	35X30	1890	0.15	1200
LG350M0330BPF-3040	330	350	30X40	2310	0.15	1350
LG350M0330BPF-3045	330	350	30X45	2310	0.15	1350
LG350M0330BPF-3535	330	350	35X35	2310	0.15	1350
LG350M0390BPF-3045	390	350	30X45	2730	0.15	1500
LG350M0390BPF-3535	390	350	35X35	2730	0.15	1500
LG350M0470BPF-3540	470	350	35X40	3000	0.15	1700
LG350M0560BPF-3545	560	350	35X45	3000	0.15	1900
LG350M0680BPF-3550	680	350	35X50	3000	0.15	2100
LG400M0047BPF-2220	47	400	22X20	376	0.15	350
LG400M0056BPF-2220	56	400	22X20	448	0.15	400
LG400M0068BPF-2225	68	400	22X25	544	0.15	500
LG400M0068BPF-2520	68	400	25X20	544	0.15	500
LG400M0082BPF-2230	82	400	22X30	656	0.15	600
LG400M0082BPF-2525	82	400	25X25	656	0.15	650
LG400M0100BPF-2235	100	400	22X35	800	0.15	650
LG400M0100BPF-2525	100	400	25X25	1200	0.15	650
LG400M0100BPF-2530	100	400	25X30	800	0.15	650
LG400M0120BPF-2235	120	400	22X35	960	0.15	700
LG400M0120BPF-2530	120	400	25X30	960	0.15	700
LG400M0120BPF-3025	120	400	30X25	960	0.15	750
LG400M0150BPF-2240	150	400	22X40	1200	0.15	800
LG400M0150BPF-2530	150	400	25X30	1200	0.20	850

Table 1-11 LG Type, Standard Ratings and Catalog Number (LIFE : 105°C,2000Hr.)

Catalog Number	Capacitance (Uf)	Rated Voltage (V.DC)	Size (mm) D X L	Leakage Current (Ua)	Dissipation Factor (Tan δ)	Ripple 120 Hz (Ma)
LG400M0150BPF-2535	150	400	25X35	1200	0.15	850
LG400M0150BPF-3025	150	400	30X25	1200	0.15	750
LG400M0150BPF-3030	150	400	30X30	1200	0.15	850
LG400M0150BPF-3525	150	400	35X25	1200	0.15	800
LG400M0180BPF-2250	180	400	22X50	1440	0.15	950
LG400M0180BPF-2540	180	400	25X40	1440	0.15	950
LG400M0180BPF-3030	180	400	30X30	1440	0.15	900
LG400M0220BPF-2545	220	400	25X45	1760	0.15	1050
LG400M0220BPF-3030	220	400	30X30	1760	0.15	1050
LG400M0220BPF-3035	220	400	30X35	1760	0.15	1050
LG400M0220BPF-3530	220	400	35X30	1760	0.15	1100
LG400M0270BPF-2550	270	400	25X50	2160	0.15	1200
LG400M0270BPF-3040	270	400	30X40	2160	0.15	1200
LG400M0270BPF-3535	270	400	35X35	2160	0.15	1200
LG400M0330BPF-3045	330	400	30X45	2640	0.15	1400
LG400M0330BPF-3535	330	400	35X35	2640	0.15	1350
LG400M0390BPF-3050	390	400	30X50	3000	0.15	1550
LG400M0390BPF-3540	390	400	35X40	3000	0.15	1550
LG400M0470BPF-3050	470	400	30X50	3000	0.15	1750
LG400M0470BPF-3540	470	400	35X40	3000	0.20	1750
LG400M0470BP3-3545	470	400	35X45	1000	0.15	2100
LG400M0470BPF-3545	470	400	35X45	3000	0.15	1750
LG400M0470BPF-3550	470	400	35X50	3000	0.20	1750
LG400M0560BPF-3545	560	400	35X45	3000	0.15	1720
LG400M0680BPF-3550	680	400	35X50	3000	0.20	1880
LG400M0680BPF-3560	680	400	35X60	3000	0.20	2150
LG450M0047BPF-2225	47	450	22X25	423	0.20	360
LG450M0056BPF-2225	56	450	22X25	504	0.20	400
LG450M0068BPF-2230	68	450	22X30	612	0.20	500
LG450M0068BPF-2525	68	450	25X25	612	0.20	500
LG450M0082BPF-2235	82	450	22X35	738	0.20	550
LG450M0082BPF-2530	82	450	25X30	738	0.20	550
LG450M0082BPF-3025	82	450	30X25	738	0.20	550
LG450M0100BPF-2240	100	450	22X40	900	0.20	650
LG450M0100BPF-2530	100	450	25X30	900	0.20	600
LG450M0100BPF-3025	100	450	30X25	900	0.20	650
LG450M0120BPF-2245	120	450	22X45	1080	0.20	700
LG450M0120BPF-2535	120	450	25X35	1080	0.20	700
LG450M0120BPF-3030	120	450	30X30	1080	0.20	700
LG450M0120BPF-3525	120	450	35X25	1080	0.20	700
LG450M0150BPF-2250	150	450	22X50	1350	0.20	800
LG450M0150BPF-2540	150	450	25X40	1350	0.20	800

Table 1-12 LG Type, Standard Ratings and Catalog Number (LIFE : 105°C,2000Hr.)

Catalog Number	Capacitance (Uf)	Rated Voltage (V.DC)	Size (mm) D X L	Leakage Current (Ua)	Dissipation Factor (Tan δ)	Ripple 120 Hz (Ma)
LG450M0150BPF-3030	150	450	30X30	1350	0.20	750
LG450M0150BPF-3525	150	450	35X25	1350	0.20	750
LG450M0180BPF-2530	180	450	25X30	1620	0.20	660
LG450M0180BPF-2545	180	450	25X45	1620	0.20	850
LG450M0180BPF-3035	180	450	30X35	1620	0.20	850
LG450M0180BPF-3530	180	450	35X30	1620	0.20	850
LG450M0220BPF-2550	220	450	25X50	1980	0.20	1000
LG450M0220BPF-3040	220	450	30X40	1980	0.20	1000
LG450M0220BPF-3530	220	450	35X30	1980	0.20	1000
LG450M0270BPF-3045	270	450	30X45	2430	0.20	1150
LG450M0270BPF-3535	270	450	35X35	2430	0.20	1150
LG450M0330BPF-3045	330	450	30X45	2970	0.20	1200
LG450M0330BPF-3050	330	450	30X50	2970	0.20	1400
LG450M0330BPF-3540	330	450	35X40	2970	0.20	1400
LG450M0390BPF-3545	390	450	35X45	3000	0.20	1550
LG450M0470BPF-3540	470	450	35X40	3000	0.20	1470
LG450M0470BPF-3545	470	450	35X45	3000	0.20	1700
LG450M0470BPF-3550	470	450	35X50	3000	0.20	1700
LG450M0560BPF-3560	560	450	35X60	3000	0.20	2100

Yageo Corporation**3F, 233-1, Pao Chiao Rd.,
Hsin Tien, Taipei, Taiwn****Tel: 886.2.2917.7555****Fax: 886.2.2917.3789**