

LBG Series

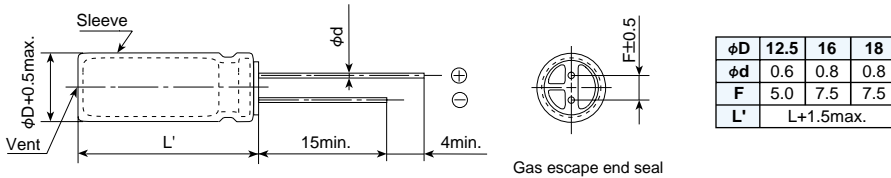
- For airbag application
- High capacitance, low impedance, and good low temperature behavior
- Endurance with ripple current : 105°C 5000 hours
- Solvent-proof type (see PRECAUTIONS AND GUIDELINES)



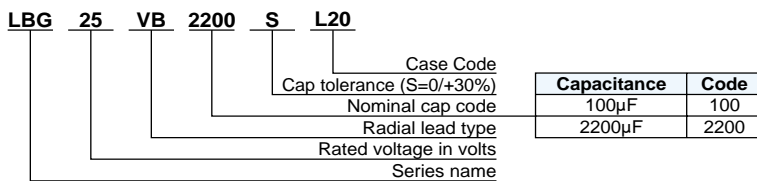
◆ SPECIFICATIONS

Items	Characteristics			
Category	-55 to +105°C			
Temperature Range	-55 to +105°C			
Rated Voltage Range	16 to 35V _{dc}			
Capacitance Range	820 to 6800µF (at 20°C, 120Hz)			
Capacitance Tolerance	0 to +30% (S) (at 20°C, 120Hz)			
Leakage Current	I=0.01CV Where, I : Max. leakage current (µA), C : Nominal capacitance (µF), V : Rated voltage (V) (at 20°C after 2 minutes)			
Dissipation Factor (tanδ)	Rated voltage (V _{dc})	16V	25V	35V
	tanδ (Max.)	0.16	0.14	0.12
	When nominal capacitance exceeds 1000µF, add 0.02 to the value above for each 1000µF increase. (at 20°C, 120Hz)			
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V _{dc})	16V	25V	35V
	Z(-55°C)/Z(+20°C)	3	3	3
Impedance at -10°C and 20°C 100kHz in the STANDARD RATINGS (at 120Hz)				
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 5000 hours at 105°C.			
	Capacitance change	≤±20% of the initial value		
	D.F. (tanδ)	≤200% of the initial specified value		
	Leakage current	≤The initial specified value		
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 hours at 105°C without voltage applied.			
	Capacitance change	≤±20% of the initial value		
	D.F. (tanδ)	≤200% of the initial specified value		
	Leakage current	≤The initial specified value		

◆ DIMENSIONS (Radial Lead Type=VB) [mm]



◆ PART NUMBERING SYSTEM



◆ STANDARD RATINGS

φD×L	Case Code	16				25				35			
		Capacitance (µF)	Impedance (Ωmax/100kHz)		Rated ripple current (mA rms/105°C, 100kHz)	Capacitance (µF)	Impedance (Ωmax/100kHz)		Rated ripple current (mA rms/105°C, 100kHz)	Capacitance (µF)	Impedance (Ωmax/100kHz)		Rated ripple current (mA rms/105°C, 100kHz)
			20°C	-10°C			20°C	-10°C			20°C	-10°C	
12.5×20	K20	2,200	0.038	0.076	1,660	1,200	0.038	0.076	1,660	820	0.038	0.076	1,660
12.5×25	K25	2,700	0.030	0.060	1,950	1,800	0.030	0.060	1,950	1,200	0.030	0.060	1,950
16×20	L20	3,300	0.029	0.058	2,210	2,200	0.029	0.058	2,210	1,500	0.029	0.058	2,210
16×25	L25	4,700	0.022	0.044	2,560	3,300	0.022	0.044	2,560	1,800	0.022	0.044	2,560
18×20	M20	4,700	0.028	0.056	2,490	2,700	0.028	0.056	2,490	1,800	0.028	0.056	2,490
18×25	M25	6,800	0.020	0.040	2,740	3,900	0.020	0.040	2,740	2,700	0.020	0.040	2,740

◆ RATED RIPPLE CURRENT MULTIPLIERS

- Frequency Multipliers

Capacitance (µF)	Frequency (Hz)			
	120	1k	10k	100k
820 to 1800	0.60	0.87	0.95	1.00
2200 to 3900	0.75	0.90	0.95	1.00
4700 to 6800	0.85	0.95	0.98	1.00