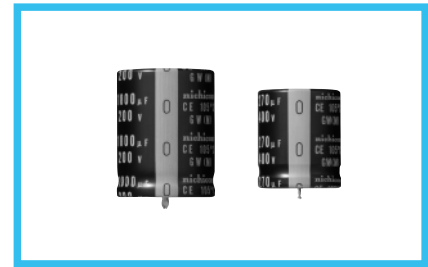


## GW series Snap-in Terminal Type, 105°C High Ripple Current



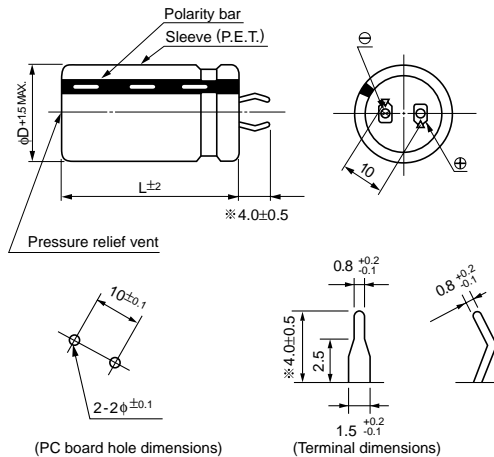
- High Ripple current.
- Withstanding 3000 hours application of rated ripple current at 105°C.
- Compliant to the RoHS directive (2002/95/EC).



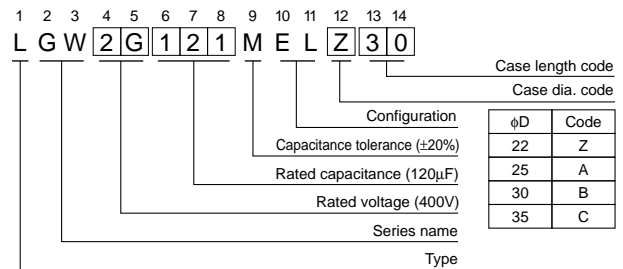
### Specifications

Item	Performance Characteristics													
Category Temperature Range	- 40 to +105°C (200 · 250V) , - 25 to +105°C (400 · 450V)													
Rated Voltage Range	200 to 450V													
Rated Capacitance Range	82 to 2200μF													
Capacitance Tolerance	±20% at 120Hz, 20°C													
Leakage Current	$I \leq 3\sqrt{CV}$ (μA) (After 5 minutes' application of rated voltage) [C : Rated Capacitance (μF) V : Voltage (V)]													
Tangent of loss angle (tan δ)	<table border="1"> <tr> <th>Rated voltage(V)</th> <th>200 to 400</th> <th>450</th> </tr> <tr> <td>tan δ (MAX.)</td> <td>0.15</td> <td>0.20</td> </tr> </table>	Rated voltage(V)	200 to 400	450	tan δ (MAX.)	0.15	0.20	Measurement frequency : 120Hz, Temperature : 20°C						
Rated voltage(V)	200 to 400	450												
tan δ (MAX.)	0.15	0.20												
Stability at Low Temperature	<table border="1"> <tr> <th colspan="3">Measurement frequency : 120Hz</th> </tr> <tr> <th>Rated voltage(V)</th> <th>200 · 250</th> <th>400 · 450</th> </tr> <tr> <td>Impedance ratio Z/-25°C/Z+20°C</td> <td>3</td> <td>8</td> </tr> <tr> <td>ZT/Z20 (MAX.)</td> <td>12</td> <td>—</td> </tr> </table>		Measurement frequency : 120Hz			Rated voltage(V)	200 · 250	400 · 450	Impedance ratio Z/-25°C/Z+20°C	3	8	ZT/Z20 (MAX.)	12	—
Measurement frequency : 120Hz														
Rated voltage(V)	200 · 250	400 · 450												
Impedance ratio Z/-25°C/Z+20°C	3	8												
ZT/Z20 (MAX.)	12	—												
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after D.C. bias plus rated ripple current is applied for 3000 hours at 105°C, the peak voltage shall not exceed the rated voltage.	<table border="1"> <tr> <td>Capacitance change</td> <td>Within ±20% of the initial capacitance value</td> </tr> <tr> <td>tan δ</td> <td>200% or less than the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>Less than or equal to the initial specified value</td> </tr> </table>	Capacitance change	Within ±20% of the initial capacitance value	tan δ	200% or less than the initial specified value	Leakage current	Less than or equal to the initial specified value						
Capacitance change	Within ±20% of the initial capacitance value													
tan δ	200% or less than the initial specified value													
Leakage current	Less than or equal to the initial specified value													
Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the requirements listed at right.	<table border="1"> <tr> <td>Capacitance change</td> <td>Within ±15% of the initial capacitance value</td> </tr> <tr> <td>tan δ</td> <td>150% or less than the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>Less than or equal to the initial specified value</td> </tr> </table>	Capacitance change	Within ±15% of the initial capacitance value	tan δ	150% or less than the initial specified value	Leakage current	Less than or equal to the initial specified value						
Capacitance change	Within ±15% of the initial capacitance value													
tan δ	150% or less than the initial specified value													
Leakage current	Less than or equal to the initial specified value													
Marking	Printed with white color letter on black sleeve.													

### Drawing



### Type numbering system (Example : 400V 120μF)



※ The other terminal is also available upon request.  
 Please refer page 272 for schematic of dimensions.

### Frequency coefficient of rated ripple current

Frequency (Hz)	50	60	120	300	1k	10k	50k or more
Coeff.	0.81	0.85	1.00	1.17	1.32	1.45	1.50
	0.77	0.82	1.00	1.16	1.30	1.41	1.43

Minimum order quantity : 50pcs.

• Dimension table in next page.

## ■ Dimensions

200V (2D)				
Cap. (μF)	Size φD × L(mm)	Rated ripple (mA)	Leakage Current (mA)	Code
330	22 × 25	1970	0.77	LGW2D331MELZ25
470	22 × 30	2170	0.91	LGW2D471MELZ30
	25 × 25	2170	0.91	LGW2D471MELA25
560	22 × 35	2220	1.00	LGW2D561MELZ35
	25 × 30	2300	1.00	LGW2D561MELA30
680	22 × 40	2300	1.10	LGW2D681MELZ40
	25 × 35	2650	1.10	LGW2D681MELA35
	30 × 25	3080	1.10	LGW2D681MELB25
820	22 × 45	2650	1.21	LGW2D821MELZ45
	25 × 40	3080	1.21	LGW2D821MELA40
	30 × 30	3480	1.21	LGW2D821MELB30
	35 × 25	3480	1.21	LGW2D821MELC25
1000	25 × 45	3450	1.34	LGW2D102MELA45
	30 × 35	3980	1.34	LGW2D102MELB35
1200	25 × 50	3980	1.46	LGW2D122MELA50
	30 × 40	4200	1.46	LGW2D122MELB40
	35 × 30	4200	1.46	LGW2D122MELC30
1500	30 × 45	4620	1.64	LGW2D152MELB45
	35 × 35	4200	1.64	LGW2D152MELC35
1800	30 × 50	5220	1.80	LGW2D182MELB50
	35 × 40	4620	1.80	LGW2D182MELC40
2200	35 × 45	5220	1.98	LGW2D222MELC45

250V (2E)				
Cap. (μF)	Size φD × L(mm)	Rated ripple (mA)	Leakage Current (mA)	Code
270	22 × 25	1650	0.77	LGW2E271MELZ25
330	22 × 30	1800	0.86	LGW2E331MELZ30
	25 × 25	1800	0.86	LGW2E331MELA25
390	22 × 35	1950	0.93	LGW2E391MELZ35
	25 × 30	1950	0.93	LGW2E391MELA30
470	22 × 40	2100	1.02	LGW2E471MELZ40
	30 × 25	2200	1.02	LGW2E471MELB25
560	22 × 45	2250	1.12	LGW2E561MELZ45
	25 × 35	2250	1.12	LGW2E561MELA35
680	22 × 50	2550	1.23	LGW2E681MELZ50
	25 × 40	2550	1.23	LGW2E681MELA40
	30 × 30	2550	1.23	LGW2E681MELB30
	35 × 25	2550	1.23	LGW2E681MELC25
820	25 × 50	3000	1.35	LGW2E821MELA50
	30 × 35	3000	1.35	LGW2E821MELB35
	35 × 30	3000	1.35	LGW2E821MELC30
1000	30 × 40	3300	1.50	LGW2E102MELB40
	35 × 35	3300	1.50	LGW2E102MELC35
1200	30 × 50	3450	1.64	LGW2E122MELB50
	35 × 40	3450	1.64	LGW2E122MELC40
1500	35 × 45	3750	1.83	LGW2E152MELC45
1800	35 × 50	4050	2.01	LGW2E182MELC50

400V (2G)				
Cap. (μF)	Size φD × L(mm)	Rated ripple (mA)	Leakage Current (mA)	Code
100	22 × 25	1020	0.60	LGW2G101MELZ25
120	22 × 30	1220	0.65	LGW2G121MELZ30
	25 × 25	1220	0.65	LGW2G121MELA25
150	22 × 35	1330	0.73	LGW2G151MELZ35
180	22 × 40	1430	0.80	LGW2G181MELZ40
	25 × 30	1430	0.80	LGW2G181MELA30
220	30 × 25	1680	0.80	LGW2G181MELB25
	22 × 45	1550	0.88	LGW2G221MELZ45
	25 × 35	1650	0.88	LGW2G221MELA35
270	30 × 30	1790	0.88	LGW2G221MELB30
	22 × 50	1680	0.98	LGW2G271MELZ50
	25 × 40	1830	0.98	LGW2G271MELA40
330	30 × 35	2120	0.98	LGW2G271MELB35
	35 × 25	2120	0.98	LGW2G271MELC25
	25 × 50	2120	1.08	LGW2G331MELA50
390	30 × 40	2330	1.08	LGW2G331MELB40
	35 × 30	2330	1.08	LGW2G331MELC30
470	30 × 45	2520	1.18	LGW2G391MELB45
	35 × 35	2520	1.18	LGW2G391MELC35
560	30 × 50	2850	1.30	LGW2G471MELB50
	35 × 40	2850	1.30	LGW2G471MELC40
680	35 × 45	3180	1.41	LGW2G561MELC45
820	35 × 50	3210	1.56	LGW2G681MELC50

450V (2W)				
Cap. (μF)	Size φD × L(mm)	Rated ripple (mA)	Leakage Current (mA)	Code
82	22 × 25	960	0.57	LGW2W820MELZ25
100	22 × 30	1040	0.63	LGW2W101MELZ30
	25 × 25	1040	0.63	LGW2W101MELA25
120	22 × 35	1150	0.69	LGW2W121MELZ35
	25 × 30	1220	0.69	LGW2W121MELA30
150	22 × 40	1220	0.77	LGW2W151MELZ40
	25 × 35	1310	0.77	LGW2W151MELA35
	30 × 25	1310	0.77	LGW2W151MELB25
180	22 × 45	1350	0.85	LGW2W181MELZ45
	25 × 40	1350	0.85	LGW2W181MELA40
	30 × 30	1600	0.85	LGW2W181MELB30
220	35 × 25	1600	0.85	LGW2W181MELC25
	25 × 45	1550	0.94	LGW2W221MELA45
270	30 × 35	1710	0.94	LGW2W221MELB35
	25 × 50	1740	1.04	LGW2W271MELA50
330	30 × 40	1900	1.04	LGW2W271MELB40
	35 × 30	1900	1.04	LGW2W271MELC30
390	30 × 45	2200	1.15	LGW2W331MELB45
	35 × 35	2200	1.15	LGW2W331MELC35
470	30 × 50	2400	1.25	LGW2W391MELB50
	35 × 40	2420	1.25	LGW2W391MELC40
560	35 × 45	2670	1.37	LGW2W471MELC45
680	35 × 50	2850	1.50	LGW2W561MELC50

Rated ripple current (mA) at 105°C 120Hz