

LSG SERIES

105°C 5000 hours, Screw Terminal Type

◆FEATURES

- Load Life : 105°C 5000 hours.
- RoHS compliance.



◆SPECIFICATIONS

| Items                      | Characteristics                                                                                             |  |  |  |  |  |
|----------------------------|-------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| Category Temperature Range | -25~+105℃                                                                                                   |  |  |  |  |  |
| Rated Voltage Range        | 350~450Vdc                                                                                                  |  |  |  |  |  |
| Capacitance Tolerance      | ±20%(20℃,120Hz)                                                                                             |  |  |  |  |  |
| Leakage Current(MAX)       | I=3 √CV or 5mA whichever is smaller.(After 5 minutes application of rated voltage)<br>I=Leakage Current(μA) |  |  |  |  |  |

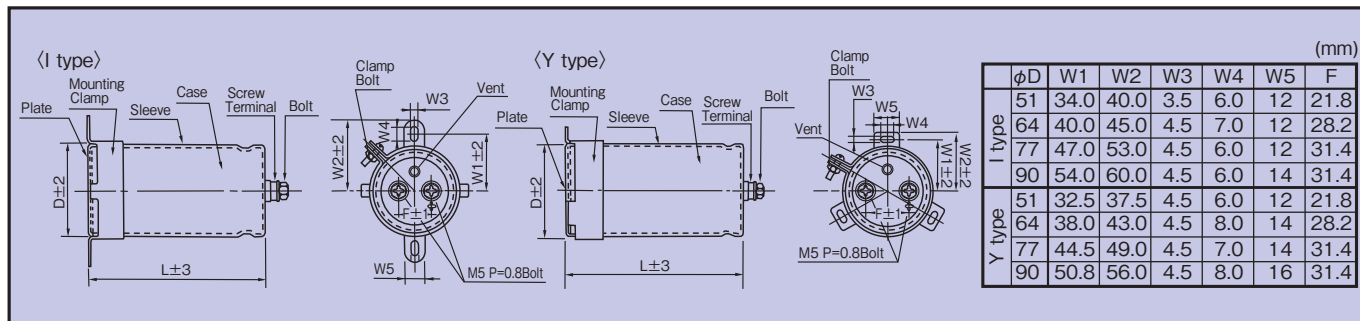
◆MULTIPLIER FOR RIPPLE CURRENT

| Frequency (Hz) | 60 (50) | 120 (100) | 300  | 500  | 1k   | 10k≤ |
|----------------|---------|-----------|------|------|------|------|
| Coefficient    | 0.80    | 1.00      | 1.17 | 1.23 | 1.30 | 1.40 |

◆PART NUMBER

LSG        M             D×L  
 Rated Voltage    Series    Capacitance    Capacitance Tolerance    Option    Clamp Code    Case Size

◆Dimensions in mm (not to scale)



**◆STANDARD SIZE**

| Rated Voltage<br>(Vdc) | Capacitance<br>( $\mu$ F) | Size<br>$\phi$ DXL (mm) | Ripple Current<br>(A.r.m.s 105°C,120Hz) |
|------------------------|---------------------------|-------------------------|-----------------------------------------|
| 350                    | 1800                      | 51×98                   | 5.5                                     |
|                        | 2200                      | 51×118                  | 6.2                                     |
|                        | 2700                      | 51×138                  | 7.0                                     |
|                        | 3300                      | 64×109                  | 8.4                                     |
|                        | 3900                      | 64×119                  | 9.2                                     |
|                        | 4700                      | 64×139                  | 10.2                                    |
|                        | 5600                      | 77×121                  | 12.6                                    |
|                        | 6800                      | 64×189                  | 12.6                                    |
|                        | 6800                      | 77×141                  | 14.1                                    |
|                        | 8200                      | 90×121                  | 18.3                                    |
|                        | 10000                     | 77×191                  | 17.5                                    |
|                        | 10000                     | 90×151                  | 20.8                                    |
|                        | 12000                     | 90×191                  | 23.5                                    |
|                        | 15000                     | 90×221                  | 26.5                                    |
|                        | 18000                     | 90×241                  | 29.0                                    |
| 400                    | 1200                      | 51×98                   | 4.7                                     |
|                        | 1500                      | 51×118                  | 5.3                                     |
|                        | 1800                      | 51×118                  | 5.8                                     |
|                        | 2200                      | 51×138                  | 6.5                                     |
|                        | 2700                      | 64×119                  | 8.0                                     |
|                        | 3300                      | 64×139                  | 8.9                                     |
|                        | 3900                      | 64×149                  | 9.7                                     |
|                        | 4700                      | 77×121                  | 12.0                                    |
|                        | 5600                      | 64×189                  | 11.8                                    |
|                        | 5600                      | 77×141                  | 13.2                                    |
|                        | 6800                      | 90×141                  | 18.0                                    |
|                        | 8200                      | 77×191                  | 16.3                                    |
|                        | 8200                      | 90×151                  | 19.5                                    |
|                        | 10000                     | 90×191                  | 22.1                                    |
|                        | 12000                     | 90×221                  | 24.1                                    |
|                        | 15000                     | 90×241                  | 27.4                                    |

| Rated Voltage<br>(Vdc) | Capacitance<br>( $\mu$ F) | Size<br>$\phi$ DXL (mm) | Ripple Current<br>(A.r.m.s 105°C,120Hz) |
|------------------------|---------------------------|-------------------------|-----------------------------------------|
| 450                    | 1000                      | 51×98                   | 4.3                                     |
|                        | 1200                      | 51×118                  | 4.8                                     |
|                        | 1500                      | 51×118                  | 5.3                                     |
|                        | 1800                      | 51×138                  | 5.9                                     |
|                        | 2200                      | 64×119                  | 7.2                                     |
|                        | 2700                      | 64×139                  | 8.0                                     |
|                        | 3300                      | 64×149                  | 8.9                                     |
|                        | 3900                      | 64×189                  | 9.9                                     |
|                        | 3900                      | 77×141                  | 11.0                                    |
|                        | 4700                      | 90×121                  | 14.6                                    |
|                        | 5600                      | 90×141                  | 16.2                                    |
|                        | 6800                      | 77×191                  | 14.9                                    |
|                        | 6800                      | 90×151                  | 17.8                                    |
|                        | 8200                      | 90×191                  | 20.0                                    |
|                        | 10000                     | 90×221                  | 22.4                                    |
|                        | 12000                     | 90×241                  | 24.6                                    |

**◆Tightening torque of bolt and Permissible current of terminal.**

| Clamp Bolt | Recommended Tightening torque |
|------------|-------------------------------|
| M3         | 0.6 [N·m]                     |
| M4         | 1.3 [N·m]                     |

| Terminal | Recommended Tightening torque<br>(Permissible Range) | Permissible Current<br>of Terminal |
|----------|------------------------------------------------------|------------------------------------|
| M5       | 2.2(1.5~3.2) [N·m]                                   | 60Arms                             |