

# LXG Series

- Endurance with ripple current : 5,000 hours at 105°C
- Non solvent resistant type
- RoHS2 Compliant

LXG

Longer life  
KMQ

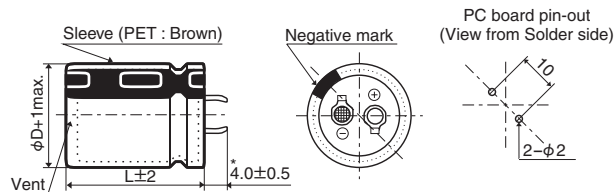


## SPECIFICATIONS

| Items                                                  | Characteristics                                                                                                                                                                                                                                                                     |                                      |      |      |      |      |      |           |                 |
|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------|------|------|------|------|-----------|-----------------|
| Category                                               | -40 to +105℃                                                                                                                                                                                                                                                                        |                                      |      |      |      |      |      |           |                 |
| Temperature Range                                      |                                                                                                                                                                                                                                                                                     |                                      |      |      |      |      |      |           |                 |
| Rated Voltage Range                                    | 10 to 100V <sub>dc</sub>                                                                                                                                                                                                                                                            |                                      |      |      |      |      |      |           |                 |
| Capacitance Tolerance                                  | ±20% (M) (at 20℃, 120Hz)                                                                                                                                                                                                                                                            |                                      |      |      |      |      |      |           |                 |
| Leakage Current                                        | I=0.02CV or 3mA, whichever is smaller.<br>Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20℃ after 5 minutes)                                                                                                                        |                                      |      |      |      |      |      |           |                 |
| Dissipation Factor (tan δ)                             | Rated voltage (V <sub>dc</sub> )                                                                                                                                                                                                                                                    | 10V                                  | 16V  | 25V  | 35V  | 50V  | 63V  | 80 & 100V | (at 20℃, 120Hz) |
|                                                        | tan δ (Max.)                                                                                                                                                                                                                                                                        | 0.60                                 | 0.45 | 0.30 | 0.25 | 0.20 | 0.15 | 0.15      |                 |
| Low Temperature Characteristics (Max. Impedance Ratio) | Capacitance change : Capacitance at the lowest operating temperature shall not be less than 70% of the 20℃ value.                                                                                                                                                                   |                                      |      |      |      |      |      |           |                 |
|                                                        | Rated voltage (V <sub>dc</sub> )                                                                                                                                                                                                                                                    | 10V                                  | 16V  | 25V  | 35V  | 50V  | 63V  | 80 & 100V |                 |
|                                                        | Z(-25℃)/Z(+20℃)                                                                                                                                                                                                                                                                     | 4                                    | 4    | 3    | 3    | 2    | 2    | 2         |                 |
|                                                        | Z(-40℃)/Z(+20℃)                                                                                                                                                                                                                                                                     | 15                                   | 15   | 10   | 8    | 6    | 6    | 5         | (at 120Hz)      |
| Endurance                                              | The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with rated ripple current is applied (the peak voltage shall not exceed the rated voltage) for 5,000 hours at 105℃.                                           |                                      |      |      |      |      |      |           |                 |
|                                                        | Capacitance change                                                                                                                                                                                                                                                                  | ≤ ±25% of the initial value          |      |      |      |      |      |           |                 |
|                                                        | D.F. (tan δ)                                                                                                                                                                                                                                                                        | ≤250% 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℃ after exposing them for 500 hours at 105℃ without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4. |                                      |      |      |      |      |      |           |                 |
|                                                        | Capacitance change                                                                                                                                                                                                                                                                  | ≤ ±20% of the initial value          |      |      |      |      |      |           |                 |
|                                                        | D.F. (tan δ)                                                                                                                                                                                                                                                                        | ≤150% of the initial specified value |      |      |      |      |      |           |                 |
|                                                        | Leakage current                                                                                                                                                                                                                                                                     | ≤The initial specified value         |      |      |      |      |      |           |                 |

## DIMENSIONS [mm]

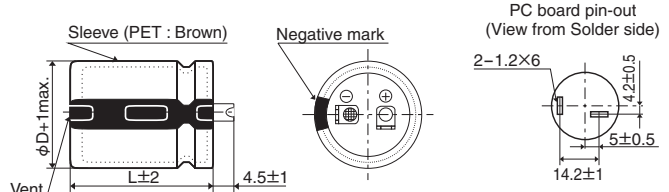
### Terminal Code : VS (φ22 to φ35) : Standard



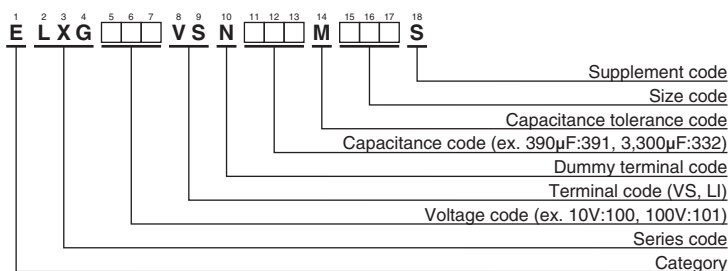
\*φD=35mm : 3.5±0.5mm

The standard design has no plastic disc.

### Terminal Code : LI (φ35)



## PART NUMBERING SYSTEM



Please refer to "Product code guide (snap-in type)"

## RATED RIPPLE CURRENT MULTIPLIERS

### Frequency Multipliers

| Frequency(Hz)            | 50   | 120  | 300  | 1k   | 10k  | 50k  |
|--------------------------|------|------|------|------|------|------|
| 10 to 50V <sub>dc</sub>  | 0.95 | 1.00 | 1.03 | 1.05 | 1.08 | 1.08 |
| 63 to 100V <sub>dc</sub> | 0.92 | 1.00 | 1.07 | 1.13 | 1.19 | 1.20 |

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced.

## ◆STANDARD RATINGS

| WV<br>(V <sub>dc</sub> ) | Cap<br>(μF) | Case size<br>φD×L(mm) | tan δ | Rated ripple<br>current<br>(Arms/<br>105°C, 120Hz) | Part No.           | WV<br>(V <sub>dc</sub> ) | Cap<br>(μF) | Case size<br>φD×L(mm) | tan δ | Rated ripple<br>current<br>(Arms/<br>105°C, 120Hz) | Part No.           |
|--------------------------|-------------|-----------------------|-------|----------------------------------------------------|--------------------|--------------------------|-------------|-----------------------|-------|----------------------------------------------------|--------------------|
| 10                       | 6,800       | 22 × 25               | 0.60  | 1.30                                               | ELXG100VSN682MP25S | 35                       | 5,600       | 25.4 × 35             | 0.25  | 1.98                                               | ELXG350VSN562MQ35S |
|                          | 10,000      | 22 × 30               | 0.60  | 1.65                                               | ELXG100VSN103MP30S |                          | 5,600       | 30 × 30               | 0.25  | 1.98                                               | ELXG350VSN562MR30S |
|                          | 10,000      | 25.4 × 25             | 0.60  | 1.64                                               | ELXG100VSN103MQ25S |                          | 5,600       | 35 × 25               | 0.25  | 2.03                                               | ELXG350VSN562MA25S |
|                          | 12,000      | 22 × 35               | 0.60  | 1.85                                               | ELXG100VSN123MP35S |                          | 6,800       | 22 × 50               | 0.25  | 2.26                                               | ELXG350VSN682MP50S |
|                          | 12,000      | 25.4 × 30             | 0.60  | 1.85                                               | ELXG100VSN123MQ30S |                          | 6,800       | 25.4 × 40             | 0.25  | 2.24                                               | ELXG350VSN682MQ40S |
|                          | 12,000      | 30 × 25               | 0.60  | 1.89                                               | ELXG100VSN123MR25S |                          | 8,200       | 25.4 × 50             | 0.25  | 2.57                                               | ELXG350VSN822MQ50S |
|                          | 15,000      | 22 × 40               | 0.60  | 2.12                                               | ELXG100VSN153MP40S |                          | 8,200       | 30 × 35               | 0.25  | 2.50                                               | ELXG350VSN822MR35S |
|                          | 15,000      | 25.4 × 35             | 0.60  | 2.16                                               | ELXG100VSN153MQ35S |                          | 8,200       | 35 × 30               | 0.25  | 2.55                                               | ELXG350VSN822MA30S |
|                          | 18,000      | 22 × 50               | 0.60  | 2.45                                               | ELXG100VSN183MP50S |                          | 10,000      | 30 × 40               | 0.25  | 2.86                                               | ELXG350VSN103MR40S |
|                          | 18,000      | 25.4 × 40             | 0.60  | 2.43                                               | ELXG100VSN183MQ40S |                          | 10,000      | 35 × 35               | 0.25  | 2.88                                               | ELXG350VSN103MA35S |
|                          | 18,000      | 30 × 30               | 0.60  | 2.37                                               | ELXG100VSN183MR30S |                          | 12,000      | 30 × 50               | 0.25  | 3.32                                               | ELXG350VSN123MR50S |
|                          | 18,000      | 35 × 25               | 0.60  | 2.42                                               | ELXG100VSN183MA25S |                          | 12,000      | 35 × 40               | 0.25  | 3.30                                               | ELXG350VSN123MA40S |
|                          | 22,000      | 30 × 35               | 0.60  | 2.73                                               | ELXG100VSN223MR35S |                          | 18,000      | 35 × 50               | 0.25  | 4.29                                               | ELXG350VSN183MA50S |
|                          | 22,000      | 35 × 30               | 0.60  | 2.79                                               | ELXG100VSN223MA30S | 50                       | 1,500       | 22 × 25               | 0.20  | 1.02                                               | ELXG500VSN152MP25S |
|                          | 27,000      | 25.4 × 50             | 0.60  | 3.11                                               | ELXG100VSN273MQ50S |                          | 1,800       | 22 × 30               | 0.20  | 1.17                                               | ELXG500VSN182MP30S |
|                          | 27,000      | 30 × 40               | 0.60  | 3.13                                               | ELXG100VSN273MR40S |                          | 1,800       | 25.4 × 25             | 0.20  | 1.17                                               | ELXG500VSN182MQ25S |
|                          | 33,000      | 35 × 35               | 0.60  | 3.49                                               | ELXG100VSN333MA35S |                          | 2,200       | 22 × 35               | 0.20  | 1.33                                               | ELXG500VSN222MP35S |
|                          | 39,000      | 30 × 50               | 0.60  | 3.99                                               | ELXG100VSN393MR50S |                          | 2,700       | 22 × 40               | 0.20  | 1.51                                               | ELXG500VSN272MP40S |
|                          | 39,000      | 35 × 40               | 0.60  | 3.96                                               | ELXG100VSN393MA40S |                          | 2,700       | 25.4 × 30             | 0.20  | 1.47                                               | ELXG500VSN272MQ30S |
|                          | 47,000      | 35 × 50               | 0.60  | 4.62                                               | ELXG100VSN473MA50S |                          | 2,700       | 30 × 25               | 0.20  | 1.50                                               | ELXG500VSN272MR25S |
| 16                       | 5,600       | 22 × 25               | 0.45  | 1.44                                               | ELXG160VSN562MP25S |                          | 3,300       | 25.4 × 35             | 0.20  | 1.70                                               | ELXG500VSN332MQ35S |
|                          | 6,800       | 22 × 30               | 0.45  | 1.66                                               | ELXG160VSN682MP30S |                          | 3,300       | 30 × 30               | 0.20  | 1.70                                               | ELXG500VSN332MR30S |
|                          | 6,800       | 25.4 × 25             | 0.45  | 1.66                                               | ELXG160VSN682MQ25S |                          | 3,300       | 35 × 25               | 0.20  | 1.74                                               | ELXG500VSN332MA25S |
|                          | 8,200       | 22 × 35               | 0.45  | 1.87                                               | ELXG160VSN822MP35S |                          | 3,900       | 22 × 50               | 0.20  | 1.91                                               | ELXG500VSN392MP50S |
|                          | 10,000      | 22 × 40               | 0.45  | 2.12                                               | ELXG160VSN103MP40S |                          | 3,900       | 25.4 × 40             | 0.20  | 1.89                                               | ELXG500VSN392MQ40S |
|                          | 10,000      | 25.4 × 30             | 0.45  | 2.07                                               | ELXG160VSN103MQ30S |                          | 4,700       | 30 × 35               | 0.20  | 2.11                                               | ELXG500VSN472MR35S |
|                          | 10,000      | 30 × 25               | 0.45  | 2.11                                               | ELXG160VSN103MR25S |                          | 4,700       | 35 × 30               | 0.20  | 2.16                                               | ELXG500VSN472MA30S |
|                          | 12,000      | 25.4 × 35             | 0.45  | 2.37                                               | ELXG160VSN123MQ35S |                          | 5,600       | 25.4 × 50             | 0.20  | 2.38                                               | ELXG500VSN562MQ50S |
|                          | 12,000      | 30 × 30               | 0.45  | 2.37                                               | ELXG160VSN123MR30S |                          | 5,600       | 30 × 40               | 0.20  | 2.39                                               | ELXG500VSN562MR40S |
|                          | 12,000      | 35 × 25               | 0.45  | 2.42                                               | ELXG160VSN123MA25S |                          | 5,600       | 35 × 35               | 0.20  | 2.41                                               | ELXG500VSN562MA35S |
|                          | 15,000      | 22 × 50               | 0.45  | 2.74                                               | ELXG160VSN153MP50S |                          | 6,800       | 30 × 50               | 0.20  | 2.79                                               | ELXG500VSN682MR50S |
|                          | 15,000      | 25.4 × 40             | 0.45  | 2.71                                               | ELXG160VSN153MQ40S |                          | 6,800       | 35 × 40               | 0.20  | 2.78                                               | ELXG500VSN682MA40S |
|                          | 18,000      | 25.4 × 50             | 0.45  | 3.11                                               | ELXG160VSN183MQ50S |                          | 10,000      | 35 × 50               | 0.20  | 3.57                                               | ELXG500VSN103MA50S |
|                          | 18,000      | 30 × 35               | 0.45  | 3.02                                               | ELXG160VSN183MR35S | 63                       | 1,000       | 22 × 25               | 0.15  | 1.00                                               | ELXG630VSN102MP25S |
|                          | 18,000      | 35 × 30               | 0.45  | 3.09                                               | ELXG160VSN183MA30S |                          | 1,200       | 22 × 30               | 0.15  | 1.15                                               | ELXG630VSN122MP30S |
|                          | 22,000      | 30 × 40               | 0.45  | 3.46                                               | ELXG160VSN223MR40S |                          | 1,200       | 25.4 × 25             | 0.15  | 1.15                                               | ELXG630VSN122MQ25S |
|                          | 22,000      | 35 × 35               | 0.45  | 3.49                                               | ELXG160VSN223MA35S |                          | 1,500       | 22 × 35               | 0.15  | 1.32                                               | ELXG630VSN152MP35S |
|                          | 27,000      | 30 × 50               | 0.45  | 4.07                                               | ELXG160VSN273MR50S |                          | 1,800       | 22 × 40               | 0.15  | 1.49                                               | ELXG630VSN182MP40S |
|                          | 27,000      | 35 × 40               | 0.45  | 4.04                                               | ELXG160VSN273MA40S |                          | 1,800       | 25.4 × 30             | 0.15  | 1.45                                               | ELXG630VSN182MQ30S |
|                          | 39,000      | 35 × 50               | 0.45  | 5.16                                               | ELXG160VSN393MA50S |                          | 1,800       | 30 × 25               | 0.15  | 1.48                                               | ELXG630VSN182MR25S |
| 25                       | 3,900       | 22 × 25               | 0.30  | 1.31                                               | ELXG250VSN392MP25S |                          | 2,200       | 25.4 × 35             | 0.15  | 1.67                                               | ELXG630VSN222MQ35S |
|                          | 4,700       | 22 × 30               | 0.30  | 1.51                                               | ELXG250VSN472MP30S |                          | 2,200       | 30 × 30               | 0.15  | 1.68                                               | ELXG630VSN222MR30S |
|                          | 4,700       | 25.4 × 25             | 0.30  | 1.51                                               | ELXG250VSN472MQ25S |                          | 2,200       | 35 × 25               | 0.15  | 1.71                                               | ELXG630VSN222MA25S |
|                          | 5,600       | 22 × 35               | 0.30  | 1.70                                               | ELXG250VSN562MP35S |                          | 2,700       | 22 × 50               | 0.15  | 1.92                                               | ELXG630VSN272MP50S |
|                          | 6,800       | 22 × 40               | 0.30  | 1.92                                               | ELXG250VSN682MP40S |                          | 2,700       | 25.4 × 40             | 0.15  | 1.90                                               | ELXG630VSN272MQ40S |
|                          | 6,800       | 25.4 × 30             | 0.30  | 1.87                                               | ELXG250VSN682MQ30S |                          | 2,700       | 30 × 35               | 0.15  | 1.93                                               | ELXG630VSN272MR35S |
|                          | 6,800       | 30 × 25               | 0.30  | 1.90                                               | ELXG250VSN682MR25S |                          | 3,300       | 25.4 × 50             | 0.15  | 2.20                                               | ELXG630VSN332MQ50S |
|                          | 8,200       | 25.4 × 35             | 0.30  | 2.14                                               | ELXG250VSN822MQ35S |                          | 3,300       | 35 × 30               | 0.15  | 2.18                                               | ELXG630VSN332MA30S |
|                          | 8,200       | 30 × 30               | 0.30  | 2.15                                               | ELXG250VSN822MR30S |                          | 3,900       | 30 × 40               | 0.15  | 2.41                                               | ELXG630VSN392MR40S |
|                          | 8,200       | 35 × 25               | 0.30  | 2.19                                               | ELXG250VSN822MA25S |                          | 3,900       | 35 × 35               | 0.15  | 2.43                                               | ELXG630VSN392MA35S |
|                          | 10,000      | 22 × 50               | 0.30  | 2.45                                               | ELXG250VSN103MP50S |                          | 4,700       | 30 × 50               | 0.15  | 2.80                                               | ELXG630VSN472MR50S |
|                          | 10,000      | 25.4 × 40             | 0.30  | 2.43                                               | ELXG250VSN103MQ40S |                          | 4,700       | 35 × 40               | 0.15  | 2.78                                               | ELXG630VSN472MA40S |
|                          | 12,000      | 25.4 × 50             | 0.30  | 2.78                                               | ELXG250VSN123MQ50S |                          | 6,800       | 35 × 50               | 0.15  | 3.55                                               | ELXG630VSN682MA50S |
|                          | 12,000      | 30 × 35               | 0.30  | 2.70                                               | ELXG250VSN123MR35S | 80                       | 680         | 22 × 25               | 0.15  | 0.97                                               | ELXG800VSN681MP25S |
|                          | 12,000      | 35 × 30               | 0.30  | 2.76                                               | ELXG250VSN123MA30S |                          | 820         | 22 × 30               | 0.15  | 1.12                                               | ELXG800VSN821MP30S |
|                          | 15,000      | 30 × 40               | 0.30  | 3.13                                               | ELXG250VSN153MR40S |                          | 1,000       | 22 × 35               | 0.15  | 1.27                                               | ELXG800VSN102MP35S |
|                          | 15,000      | 35 × 35               | 0.30  | 3.16                                               | ELXG250VSN153MA35S |                          | 1,000       | 25.4 × 25             | 0.15  | 1.23                                               | ELXG800VSN102MQ25S |
|                          | 18,000      | 30 × 50               | 0.30  | 3.64                                               | ELXG250VSN183MR50S |                          | 1,200       | 22 × 40               | 0.15  | 1.42                                               | ELXG800VSN122MP40S |
|                          | 18,000      | 35 × 40               | 0.30  | 3.61                                               | ELXG250VSN183MA40S |                          | 1,200       | 25.4 × 30             | 0.15  | 1.39                                               | ELXG800VSN122MQ30S |
|                          | 27,000      | 35 × 50               | 0.30  | 4.70                                               | ELXG250VSN273MA50S |                          | 1,200       | 30 × 25               | 0.15  | 1.41                                               | ELXG800VSN122MR25S |
| 35                       | 2,200       | 22 × 25               | 0.25  | 1.10                                               | ELXG350VSN222MP25S |                          | 1,500       | 25.4 × 35             | 0.15  | 1.62                                               | ELXG800VSN152MQ35S |
|                          | 3,300       | 22 × 30               | 0.25  | 1.42                                               | ELXG350VSN332MP30S |                          | 1,800       | 22 × 50               | 0.15  | 1.84                                               | ELXG800VSN182MP50S |
|                          | 3,300       | 25.4 × 25             | 0.25  | 1.41                                               | ELXG350VSN332MQ25S |                          | 1,800       | 25.4 × 40             | 0.15  | 1.82                                               | ELXG800VSN182MQ40S |
|                          | 3,900       | 22 × 35               | 0.25  | 1.58                                               | ELXG350VSN392MP35S |                          | 1,800       | 30 × 30               | 0.15  | 1.78                                               | ELXG800VSN182MR30S |
|                          | 3,900       | 25.4 × 30             | 0.25  | 1.58                                               | ELXG350VSN392MQ30S |                          | 1,800       | 35 × 25               | 0.15  | 1.82                                               | ELXG800VSN182MA25S |
|                          | 4,700       | 22 × 40               | 0.25  | 1.78                                               | ELXG350VSN472MP40S |                          | 2,200       | 25.4 × 50             | 0.15  | 2.11                                               | ELXG800VSN222MQ50S |
|                          | 4,700       | 30 × 25               | 0.25  | 1.77                                               | ELXG350VSN472MR25S |                          | 2,200       | 30 × 35               | 0.15  | 2.05                                               | ELXG800VSN222MR35S |

◆STANDARD RATINGS

| WV<br>(V <sub>dc</sub> ) | Cap<br>(μF) | Case size<br>φD×L(mm) | tan δ | Rated ripple<br>current<br>(Arms/<br>105°C, 120Hz) | Part No.           | WV<br>(V <sub>dc</sub> ) | Cap<br>(μF) | Case size<br>φD×L(mm) | tan δ | Rated ripple<br>current<br>(Arms/<br>105°C, 120Hz) | Part No.           |
|--------------------------|-------------|-----------------------|-------|----------------------------------------------------|--------------------|--------------------------|-------------|-----------------------|-------|----------------------------------------------------|--------------------|
| 80                       | 2,200       | 35 × 30               | 0.15  | 2.09                                               | ELXG800VSN222MA30S | 100                      | 1,000       | 25.4 × 35             | 0.15  | 1.41                                               | ELXG101VSN102MQ35S |
|                          | 2,700       | 30 × 40               | 0.15  | 2.35                                               | ELXG800VSN272MR40S |                          | 1,000       | 30 × 30               | 0.15  | 1.42                                               | ELXG101VSN102MR30S |
|                          | 2,700       | 35 × 35               | 0.15  | 2.37                                               | ELXG800VSN272MA35S |                          | 1,000       | 35 × 25               | 0.15  | 1.45                                               | ELXG101VSN102MA25S |
|                          | 3,300       | 30 × 50               | 0.15  | 2.75                                               | ELXG800VSN332MR50S |                          | 1,200       | 22 × 50               | 0.15  | 1.60                                               | ELXG101VSN122MP50S |
|                          | 3,300       | 35 × 40               | 0.15  | 2.73                                               | ELXG800VSN332MA40S |                          | 1,200       | 25.4 × 40             | 0.15  | 1.59                                               | ELXG101VSN122MQ40S |
|                          | 4,700       | 35 × 50               | 0.15  | 3.46                                               | ELXG800VSN472MA50S |                          | 1,200       | 30 × 35               | 0.15  | 1.61                                               | ELXG101VSN122MR35S |
| 100                      | 390         | 22 × 25               | 0.15  | 0.78                                               | ELXG101VSN391MP25S |                          | 1,500       | 25.4 × 50             | 0.15  | 1.86                                               | ELXG101VSN152MQ50S |
|                          | 560         | 22 × 30               | 0.15  | 0.99                                               | ELXG101VSN561MP30S |                          | 1,500       | 30 × 40               | 0.15  | 1.87                                               | ELXG101VSN152MR40S |
|                          | 560         | 25.4 × 25             | 0.15  | 0.98                                               | ELXG101VSN561MQ25S |                          | 1,500       | 35 × 30               | 0.15  | 1.85                                               | ELXG101VSN152MA30S |
|                          | 680         | 22 × 35               | 0.15  | 1.12                                               | ELXG101VSN681MP35S |                          | 1,800       | 35 × 35               | 0.15  | 2.07                                               | ELXG101VSN182MA35S |
|                          | 820         | 22 × 40               | 0.15  | 1.26                                               | ELXG101VSN821MP40S |                          | 2,200       | 30 × 50               | 0.15  | 2.40                                               | ELXG101VSN222MR50S |
|                          | 820         | 25.4 × 30             | 0.15  | 1.23                                               | ELXG101VSN821MQ30S |                          | 2,200       | 35 × 40               | 0.15  | 2.39                                               | ELXG101VSN222MA40S |
|                          | 820         | 30 × 25               | 0.15  | 1.25                                               | ELXG101VSN821MR25S |                          | 2,700       | 35 × 50               | 0.15  | 2.81                                               | ELXG101VSN272MA50S |

◆MAXIMUM IMPEDANCE [mΩ/20°C, 30kHz]

| Case size<br>φD×L(mm) | V <sub>dc</sub> | 10 to 63 | 80  | 100 |
|-----------------------|-----------------|----------|-----|-----|
| 22×25                 |                 | 120      | 150 |     |
| 22×30                 |                 | 100      | 120 |     |
| 22×35                 |                 | 80       | 95  |     |
| 22×40                 |                 | 70       | 80  |     |
| 22×50                 |                 | 50       | 60  |     |
| 25.4×25               |                 | 90       | 110 |     |
| 25.4×30               |                 | 70       | 85  |     |
| 25.4×35               |                 | 60       | 70  |     |
| 25.4×40               |                 | 50       | 60  |     |
| 25.4×50               |                 | 40       | 45  |     |
| 30×25                 |                 | 70       | 80  |     |
| 30×30                 |                 | 50       | 60  |     |
| 30×35                 |                 | 40       | 50  |     |
| 30×40                 |                 | 35       | 40  |     |
| 30×50                 |                 | 25       | 30  |     |
| 35×25                 |                 | 65       | 70  |     |
| 35×30                 |                 | 45       | 50  |     |
| 35×35                 |                 | 38       | 40  |     |
| 35×40                 |                 | 30       | 30  |     |
| 35×50                 |                 | 23       | 25  |     |

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