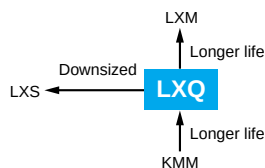


# LXQ Series

- Endurance with ripple current : 5,000 hours at 105°C
- Downsized and higher ripple version of LXG series
- Non solvent resistant type
- RoHS Compliant

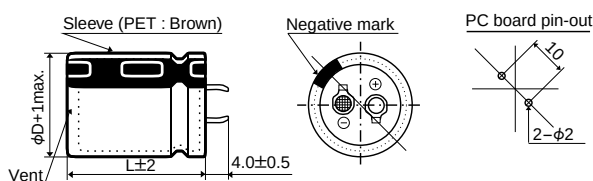


## SPECIFICATIONS

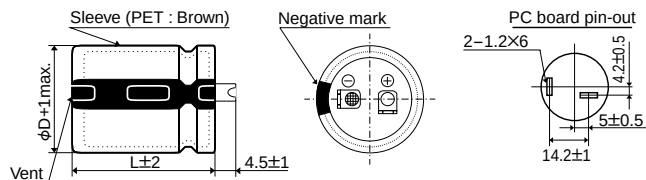
| Items                                                  | Characteristics                                                                                                                                                                                                                                                                         |                                      |                       |
|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------------------|
| Category                                               | Temperature Range                                                                                                                                                                                                                                                                       |                                      |                       |
| Temperature Range                                      | -25 to +105°C                                                                                                                                                                                                                                                                           |                                      |                       |
| Rated Voltage Range                                    | 160 to 450V <sub>dc</sub>                                                                                                                                                                                                                                                               |                                      |                       |
| Capacitance Tolerance                                  | ±20% (M) (at 20°C, 120Hz)                                                                                                                                                                                                                                                               |                                      |                       |
| Leakage Current                                        | I≤3√CV<br>Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 5 minutes)                                                                                                                                                           |                                      |                       |
| Dissipation Factor (tanδ)                              | Rated voltage (V <sub>dc</sub> )                                                                                                                                                                                                                                                        | 160 to 400V                          | 420 & 450V            |
|                                                        | tanδ (Max.)                                                                                                                                                                                                                                                                             | 0.15                                 | 0.20 (at 20°C, 120Hz) |
| Low Temperature Characteristics (Max. Impedance Ratio) | Rated voltage (V <sub>dc</sub> )                                                                                                                                                                                                                                                        | 160 to 400V                          | 420 & 450V            |
|                                                        | Z(-25°C)/Z(+20°C)                                                                                                                                                                                                                                                                       | 4                                    | 8 (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 5,000 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 1,000 hours at 105°C 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                                                                                                                                                                                                                                                                      | ≤±15% of the initial value           |                       |
|                                                        | D.F. (tanδ)                                                                                                                                                                                                                                                                             | ≤150% of the initial specified value |                       |
|                                                        | Leakage current                                                                                                                                                                                                                                                                         | ≤The initial specified value         |                       |

## DIMENSIONS [mm]

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

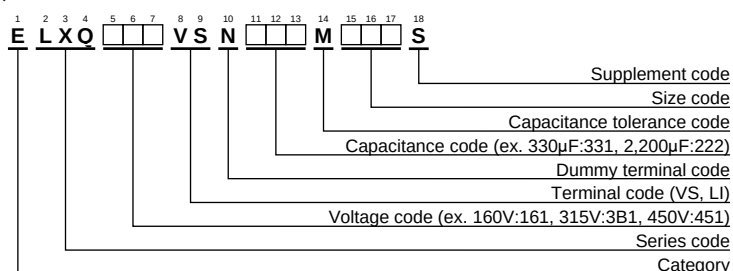


- Terminal Code : LI (φ30, φ35)



The standard design has no plastic disc.

## PART NUMBERING SYSTEM



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

## ◆STANDARD RATINGS

| WV<br>(Vdc) | Cap<br>(μF) | Case size<br>φD×L(mm) | tanδ | Rated ripple<br>current<br>(Arms/<br>105°C,120Hz) | Part No.           | WV<br>(Vdc) | Cap<br>(μF) | Case size<br>φD×L(mm) | tanδ | Rated ripple<br>current<br>(Arms/<br>105°C,120Hz) | Part No.           |
|-------------|-------------|-----------------------|------|---------------------------------------------------|--------------------|-------------|-------------|-----------------------|------|---------------------------------------------------|--------------------|
| 160         | 390         | 22×25                 | 0.15 | 1.32                                              | ELXQ161VSN391MP25S | 200         | 1,200       | 30×50                 | 0.15 | 2.88                                              | ELXQ201VSN122MR50S |
|             | 560         | 22×30                 | 0.15 | 1.66                                              | ELXQ161VSN561MP30S |             | 1,200       | 35×35                 | 0.15 | 2.88                                              | ELXQ201VSN122MA35S |
|             | 560         | 25.4×25               | 0.15 | 1.68                                              | ELXQ161VSN561MQ25S |             | 1,500       | 35×40                 | 0.15 | 3.34                                              | ELXQ201VSN152MA40S |
|             | 680         | 22×35                 | 0.15 | 1.87                                              | ELXQ161VSN681MP35S |             | 1,800       | 35×45                 | 0.15 | 3.74                                              | ELXQ201VSN182MA45S |
|             | 680         | 25.4×30               | 0.15 | 1.88                                              | ELXQ161VSN681MQ30S |             | 1,800       | 35×50                 | 0.15 | 3.82                                              | ELXQ201VSN182MA50S |
|             | 680         | 30×25                 | 0.15 | 1.96                                              | ELXQ161VSN681MR25S | 220         | 270         | 22×25                 | 0.15 | 1.10                                              | ELXQ221VSN271MP25S |
|             | 820         | 22×40                 | 0.15 | 2.09                                              | ELXQ161VSN821MP40S |             | 330         | 22×30                 | 0.15 | 1.19                                              | ELXQ221VSN331MP30S |
|             | 1,000       | 22×45                 | 0.15 | 2.36                                              | ELXQ161VSN102MP45S |             | 390         | 25.4×25               | 0.15 | 1.39                                              | ELXQ221VSN391MQ25S |
|             | 1,000       | 22×50                 | 0.15 | 2.41                                              | ELXQ161VSN102MP50S |             | 470         | 22×35                 | 0.15 | 1.55                                              | ELXQ221VSN471MP35S |
|             | 1,000       | 25.4×35               | 0.15 | 2.38                                              | ELXQ161VSN102MQ35S |             | 470         | 25.4×30               | 0.15 | 1.56                                              | ELXQ221VSN471MQ30S |
|             | 1,000       | 30×30                 | 0.15 | 2.40                                              | ELXQ161VSN102MR30S |             | 470         | 30×25                 | 0.15 | 1.63                                              | ELXQ221VSN471MR25S |
|             | 1,000       | 35×25                 | 0.15 | 2.55                                              | ELXQ161VSN102MA25S |             | 560         | 22×40                 | 0.15 | 1.73                                              | ELXQ221VSN561MP40S |
|             | 1,200       | 25.4×40               | 0.15 | 2.66                                              | ELXQ161VSN122MQ40S |             | 560         | 30×30                 | 0.15 | 1.79                                              | ELXQ221VSN561MR30S |
|             | 1,200       | 25.4×45               | 0.15 | 2.71                                              | ELXQ161VSN122MQ45S |             | 680         | 22×45                 | 0.15 | 1.94                                              | ELXQ221VSN681MA25S |
|             | 1,200       | 30×35                 | 0.15 | 2.69                                              | ELXQ161VSN122MR35S |             | 680         | 22×50                 | 0.15 | 1.99                                              | ELXQ221VSN681MP50S |
|             | 1,200       | 30×40                 | 0.15 | 2.77                                              | ELXQ161VSN122MR40S |             | 680         | 25.4×35               | 0.15 | 1.96                                              | ELXQ221VSN681MQ35S |
|             | 1,200       | 35×30                 | 0.15 | 2.86                                              | ELXQ161VSN122MA30S |             | 680         | 30×35                 | 0.15 | 2.02                                              | ELXQ221VSN681MR35S |
|             | 1,500       | 25.4×50               | 0.15 | 3.08                                              | ELXQ161VSN152MQ50S |             | 680         | 35×25                 | 0.15 | 2.10                                              | ELXQ221VSN681MA25S |
|             | 1,500       | 30×45                 | 0.15 | 3.17                                              | ELXQ161VSN152MR45S |             | 820         | 25.4×40               | 0.15 | 2.20                                              | ELXQ221VSN821MQ40S |
|             | 1,500       | 35×35                 | 0.15 | 3.22                                              | ELXQ161VSN152MA35S |             | 820         | 25.4×45               | 0.15 | 2.24                                              | ELXQ221VSN821MQ45S |
|             | 1,800       | 30×50                 | 0.15 | 3.53                                              | ELXQ161VSN182MR50S |             | 820         | 30×40                 | 0.15 | 2.29                                              | ELXQ221VSN821MR40S |
|             | 1,800       | 35×40                 | 0.15 | 3.66                                              | ELXQ161VSN182MA40S |             | 820         | 35×30                 | 0.15 | 2.36                                              | ELXQ221VSN821MA30S |
|             | 2,200       | 35×45                 | 0.15 | 4.14                                              | ELXQ161VSN222MA45S | 250         | 1,000       | 25.4×50               | 0.15 | 2.51                                              | ELXQ221VSN102MQ50S |
| 180         | 2,700       | 35×50                 | 0.15 | 4.68                                              | ELXQ161VSN272MA50S |             | 1,000       | 30×45                 | 0.15 | 2.59                                              | ELXQ221VSN102MR45S |
|             | 330         | 22×25                 | 0.15 | 1.21                                              | ELXQ181VSN331MP25S |             | 1,000       | 35×35                 | 0.15 | 2.63                                              | ELXQ221VSN102MA35S |
|             | 470         | 22×30                 | 0.15 | 1.52                                              | ELXQ181VSN471MP30S |             | 1,200       | 30×50                 | 0.15 | 2.88                                              | ELXQ221VSN122MR50S |
|             | 470         | 25.4×25               | 0.15 | 1.52                                              | ELXQ181VSN471MQ25S |             | 1,200       | 35×40                 | 0.15 | 2.98                                              | ELXQ221VSN122MA40S |
|             | 560         | 22×35                 | 0.15 | 1.70                                              | ELXQ181VSN561MP35S |             | 1,500       | 35×45                 | 0.15 | 3.41                                              | ELXQ221VSN152MA45S |
|             | 560         | 30×25                 | 0.15 | 1.78                                              | ELXQ181VSN561MR25S |             | 1,800       | 35×50                 | 0.15 | 3.82                                              | ELXQ221VSN182MA50S |
|             | 680         | 22×40                 | 0.15 | 1.91                                              | ELXQ181VSN681MP40S |             | 220         | 22×25                 | 0.15 | 1.01                                              | ELXQ251VSN221MP25S |
|             | 680         | 25.4×30               | 0.15 | 1.88                                              | ELXQ181VSN681MQ30S |             | 270         | 22×30                 | 0.15 | 1.20                                              | ELXQ251VSN271MP30S |
|             | 820         | 22×45                 | 0.15 | 1.99                                              | ELXQ181VSN821MP45S |             | 330         | 25.4×25               | 0.15 | 1.32                                              | ELXQ251VSN331MQ25S |
|             | 820         | 25.4×35               | 0.15 | 2.16                                              | ELXQ181VSN821MQ35S |             | 390         | 22×35                 | 0.15 | 1.44                                              | ELXQ251VSN391MP35S |
|             | 820         | 30×30                 | 0.15 | 2.17                                              | ELXQ181VSN821MR30S |             | 390         | 25.4×30               | 0.15 | 1.43                                              | ELXQ251VSN391MQ30S |
|             | 820         | 35×25                 | 0.15 | 2.31                                              | ELXQ181VSN821MA25S |             | 390         | 30×25                 | 0.15 | 1.51                                              | ELXQ251VSN391MR25S |
|             | 1,000       | 22×50                 | 0.15 | 2.25                                              | ELXQ181VSN102MP50S |             | 470         | 22×40                 | 0.15 | 1.62                                              | ELXQ251VSN471MP40S |
|             | 1,000       | 25.4×40               | 0.15 | 2.43                                              | ELXQ181VSN102MQ40S |             | 560         | 22×45                 | 0.15 | 1.80                                              | ELXQ251VSN561MP45S |
|             | 1,000       | 25.4×45               | 0.15 | 2.47                                              | ELXQ181VSN102MQ45S |             | 560         | 22×50                 | 0.15 | 1.84                                              | ELXQ251VSN561MP50S |
|             | 1,000       | 30×35                 | 0.15 | 2.46                                              | ELXQ181VSN102MR35S |             | 560         | 25.4×35               | 0.15 | 1.78                                              | ELXQ251VSN561MQ35S |
|             | 1,200       | 25.4×50               | 0.15 | 2.75                                              | ELXQ181VSN122MQ50S |             | 560         | 30×30                 | 0.15 | 1.83                                              | ELXQ251VSN561MR30S |
|             | 1,200       | 30×40                 | 0.15 | 2.77                                              | ELXQ181VSN122MR40S |             | 560         | 35×25                 | 0.15 | 1.91                                              | ELXQ251VSN561MA25S |
|             | 1,200       | 35×30                 | 0.15 | 2.86                                              | ELXQ181VSN122MA30S |             | 680         | 25.4×40               | 0.15 | 2.00                                              | ELXQ251VSN681MQ40S |
|             | 1,500       | 30×45                 | 0.15 | 3.17                                              | ELXQ181VSN152MR45S | 315         | 680         | 25.4×45               | 0.15 | 2.04                                              | ELXQ251VSN681MQ45S |
| 200         | 1,500       | 30×50                 | 0.15 | 3.22                                              | ELXQ181VSN152MR50S |             | 680         | 30×35                 | 0.15 | 2.06                                              | ELXQ251VSN681MR35S |
|             | 1,500       | 35×35                 | 0.15 | 3.22                                              | ELXQ181VSN152MA35S |             | 680         | 35×30                 | 0.15 | 2.15                                              | ELXQ251VSN681MA30S |
|             | 1,800       | 35×40                 | 0.15 | 3.66                                              | ELXQ181VSN182MA40S |             | 820         | 25.4×50               | 0.15 | 2.28                                              | ELXQ251VSN821MQ50S |
|             | 1,800       | 35×45                 | 0.15 | 3.74                                              | ELXQ181VSN182MA45S |             | 820         | 30×40                 | 0.15 | 2.33                                              | ELXQ251VSN821MR40S |
|             | 2,200       | 35×50                 | 0.15 | 4.22                                              | ELXQ181VSN222MA50S |             | 820         | 30×45                 | 0.15 | 2.39                                              | ELXQ251VSN821MR45S |
|             | 270         | 22×25                 | 0.15 | 1.10                                              | ELXQ201VSN271MP25S |             | 820         | 35×35                 | 0.15 | 2.38                                              | ELXQ251VSN821MA35S |
|             | 390         | 22×30                 | 0.15 | 1.38                                              | ELXQ201VSN391MP30S |             | 1,000       | 30×50                 | 0.15 | 2.68                                              | ELXQ251VSN102MR50S |
|             | 390         | 25.4×25               | 0.15 | 1.39                                              | ELXQ201VSN391MQ25S |             | 1,000       | 35×40                 | 0.15 | 2.72                                              | ELXQ251VSN102MA40S |
|             | 470         | 22×35                 | 0.15 | 1.55                                              | ELXQ201VSN471MP35S |             | 1,200       | 35×45                 | 0.15 | 3.05                                              | ELXQ251VSN122MA45S |
|             | 560         | 22×40                 | 0.15 | 1.73                                              | ELXQ201VSN561MP40S |             | 1,500       | 35×50                 | 0.15 | 3.49                                              | ELXQ251VSN152MA50S |
|             | 560         | 25.4×30               | 0.15 | 1.71                                              | ELXQ201VSN561MQ30S |             | 150         | 22×25                 | 0.15 | 0.80                                              | ELXQ3B1VSN151MP25S |
|             | 560         | 30×25                 | 0.15 | 1.78                                              | ELXQ201VSN561MR25S |             | 180         | 22×30                 | 0.15 | 0.92                                              | ELXQ3B1VSN181MP30S |
|             | 680         | 22×45                 | 0.15 | 1.81                                              | ELXQ201VSN681MP45S |             | 180         | 25.4×25               | 0.15 | 0.94                                              | ELXQ3B1VSN181MQ25S |
|             | 680         | 25.4×35               | 0.15 | 1.87                                              | ELXQ201VSN681MQ35S |             | 220         | 22×35                 | 0.15 | 1.04                                              | ELXQ3B1VSN221MP35S |
|             | 680         | 30×30                 | 0.15 | 1.98                                              | ELXQ201VSN681MR30S |             | 220         | 30×25                 | 0.15 | 1.17                                              | ELXQ3B1VSN221MR25S |
|             | 680         | 35×25                 | 0.15 | 2.10                                              | ELXQ201VSN681MA25S |             | 270         | 22×40                 | 0.15 | 1.18                                              | ELXQ3B1VSN271MP40S |
|             | 820         | 22×50                 | 0.15 | 2.18                                              | ELXQ201VSN821MP50S |             | 270         | 25.4×30               | 0.15 | 1.19                                              | ELXQ3B1VSN271MQ30S |
|             | 820         | 25.4×40               | 0.15 | 2.09                                              | ELXQ201VSN821MQ40S |             | 330         | 22×45                 | 0.15 | 1.33                                              | ELXQ3B1VSN331MP45S |
|             | 820         | 30×35                 | 0.15 | 2.22                                              | ELXQ201VSN821MR35S |             | 330         | 25.4×35               | 0.15 | 1.37                                              | ELXQ3B1VSN331MQ35S |
|             | 1,000       | 25.4×45               | 0.15 | 2.35                                              | ELXQ201VSN102MQ45S |             | 330         | 30×30                 | 0.15 | 1.40                                              | ELXQ3B1VSN331MR30S |
|             | 1,000       | 25.4×50               | 0.15 | 2.39                                              | ELXQ201VSN102MQ50S |             | 330         | 35×25                 | 0.15 | 1.49                                              | ELXQ3B1VSN331MA25S |
|             | 1,000       | 30×40                 | 0.15 | 2.53                                              | ELXQ201VSN102MR40S |             | 390         | 22×50                 | 0.15 | 1.48                                              | ELXQ3B1VSN391MP50S |
|             | 1,000       | 35×30                 | 0.15 | 2.61                                              | ELXQ201VSN102MA30S |             | 390         | 25.4×40               | 0.15 | 1.52                                              | ELXQ3B1VSN391MQ40S |
|             | 1,200       | 30×45                 | 0.15 | 2.84                                              | ELXQ201VSN122MR45S |             | 470         | 25.4×45               | 0.15 | 1.70                                              | ELXQ3B1VSN471MQ45S |

## ◆STANDARD RATINGS

| WV (Vdc) | Cap (μF) | Case size φD×L(mm) | tanδ | Rated ripple current (Arms/105°C,120Hz) | Part No.           | WV (Vdc) | Cap (μF) | Case size φD×L(mm) | tanδ | Rated ripple current (Arms/105°C,120Hz) | Part No.           |
|----------|----------|--------------------|------|-----------------------------------------|--------------------|----------|----------|--------------------|------|-----------------------------------------|--------------------|
| 315      | 470      | 30×35              | 0.15 | 1.71                                    | ELXQ3B1VSN471MR35S | 400      | 470      | 30×45              | 0.15 | 1.81                                    | ELXQ401VSN471MR45S |
|          | 470      | 35×30              | 0.15 | 1.82                                    | ELXQ3B1VSN471MA30S |          | 470      | 30×50              | 0.15 | 1.84                                    | ELXQ401VSN471MR50S |
|          | 560      | 25.4×50            | 0.15 | 1.88                                    | ELXQ3B1VSN561MQ50S |          | 470      | 35×40              | 0.15 | 1.90                                    | ELXQ401VSN471MA40S |
|          | 560      | 30×40              | 0.15 | 1.92                                    | ELXQ3B1VSN561MR40S |          | 560      | 35×45              | 0.15 | 2.12                                    | ELXQ401VSN561MA45S |
|          | 560      | 30×45              | 0.15 | 1.97                                    | ELXQ3B1VSN561MR45S |          | 680      | 35×50              | 0.15 | 2.39                                    | ELXQ401VSN681MA50S |
|          | 560      | 35×35              | 0.15 | 2.00                                    | ELXQ3B1VSN561MA35S | 420      | 100      | 22×25              | 0.20 | 0.66                                    | ELXQ421VSN101MP25S |
|          | 680      | 30×50              | 0.15 | 2.21                                    | ELXQ3B1VSN681MR50S |          | 120      | 22×30              | 0.20 | 0.75                                    | ELXQ421VSN121MP30S |
|          | 680      | 35×40              | 0.15 | 2.29                                    | ELXQ3B1VSN681MA40S |          | 120      | 25.4×25            | 0.20 | 0.77                                    | ELXQ421VSN121MQ25S |
|          | 820      | 35×45              | 0.15 | 2.57                                    | ELXQ3B1VSN821MA45S |          | 150      | 22×35              | 0.20 | 0.86                                    | ELXQ421VSN151MP35S |
|          | 1,000    | 35×50              | 0.15 | 2.89                                    | ELXQ3B1VSN102MA50S |          | 180      | 22×40              | 0.20 | 0.96                                    | ELXQ421VSN181MP40S |
| 350      | 120      | 22×25              | 0.15 | 0.72                                    | ELXQ351VSN121MP25S |          | 180      | 22×45              | 0.20 | 0.98                                    | ELXQ421VSN181MP45S |
|          | 150      | 22×30              | 0.15 | 0.84                                    | ELXQ351VSN151MP30S |          | 180      | 25.4×30            | 0.20 | 0.97                                    | ELXQ421VSN181MQ30S |
|          | 180      | 25.4×25            | 0.15 | 0.94                                    | ELXQ351VSN181MQ25S |          | 180      | 25.4×35            | 0.20 | 1.01                                    | ELXQ421VSN181MQ35S |
|          | 220      | 22×35              | 0.15 | 1.04                                    | ELXQ351VSN221MP35S |          | 180      | 30×25              | 0.20 | 1.02                                    | ELXQ421VSN221MA25S |
|          | 220      | 22×40              | 0.15 | 1.06                                    | ELXQ351VSN221MP40S |          | 220      | 22×50              | 0.20 | 1.11                                    | ELXQ421VSN221MP50S |
|          | 220      | 25.4×30            | 0.15 | 1.07                                    | ELXQ351VSN221MQ30S |          | 220      | 25.4×40            | 0.20 | 1.14                                    | ELXQ421VSN221MQ40S |
|          | 220      | 30×25              | 0.15 | 1.13                                    | ELXQ351VSN221MR25S |          | 220      | 30×30              | 0.20 | 1.14                                    | ELXQ421VSN221MR30S |
|          | 270      | 22×45              | 0.15 | 1.20                                    | ELXQ351VSN271MP45S |          | 220      | 35×25              | 0.20 | 1.22                                    | ELXQ421VSN221MA25S |
|          | 270      | 25.4×35            | 0.15 | 1.24                                    | ELXQ351VSN271MQ35S |          | 270      | 25.4×45            | 0.20 | 1.29                                    | ELXQ421VSN271MQ45S |
|          | 270      | 30×30              | 0.15 | 1.27                                    | ELXQ351VSN271MR30S |          | 270      | 30×35              | 0.20 | 1.30                                    | ELXQ421VSN271MR35S |
|          | 270      | 35×25              | 0.15 | 1.35                                    | ELXQ351VSN271MA25S |          | 270      | 35×30              | 0.20 | 1.38                                    | ELXQ421VSN271MA30S |
|          | 330      | 22×50              | 0.15 | 1.36                                    | ELXQ351VSN331MP50S |          | 330      | 25.4×50            | 0.20 | 1.44                                    | ELXQ421VSN331MQ50S |
|          | 330      | 25.4×40            | 0.15 | 1.39                                    | ELXQ351VSN331MQ40S |          | 330      | 30×40              | 0.20 | 1.48                                    | ELXQ421VSN331MR40S |
|          | 330      | 30×35              | 0.15 | 1.43                                    | ELXQ351VSN331MR35S |          | 330      | 35×35              | 0.20 | 1.54                                    | ELXQ421VSN331MA35S |
|          | 390      | 25.4×45            | 0.15 | 1.55                                    | ELXQ351VSN391MQ45S |          | 390      | 30×45              | 0.20 | 1.64                                    | ELXQ421VSN391MR45S |
|          | 390      | 30×40              | 0.15 | 1.60                                    | ELXQ351VSN391MR40S |          | 390      | 35×40              | 0.20 | 1.73                                    | ELXQ421VSN391MA40S |
|          | 390      | 35×30              | 0.15 | 1.66                                    | ELXQ351VSN391MA30S |          | 470      | 30×50              | 0.20 | 1.84                                    | ELXQ421VSN471MR50S |
|          | 470      | 25.4×50            | 0.15 | 1.72                                    | ELXQ351VSN471MQ50S |          | 470      | 35×45              | 0.20 | 1.94                                    | ELXQ421VSN471MA45S |
|          | 470      | 30×45              | 0.15 | 1.81                                    | ELXQ351VSN471MR45S |          | 560      | 35×50              | 0.20 | 2.17                                    | ELXQ421VSN561MA50S |
|          | 470      | 35×35              | 0.15 | 1.83                                    | ELXQ351VSN471MA35S | 450      | 82       | 22×25              | 0.20 | 0.59                                    | ELXQ451VSN820MP25S |
| 400      | 560      | 30×50              | 0.15 | 2.00                                    | ELXQ351VSN561MR50S |          | 100      | 22×30              | 0.20 | 0.69                                    | ELXQ451VSN101MP30S |
|          | 560      | 35×40              | 0.15 | 2.07                                    | ELXQ351VSN561MA40S |          | 100      | 25.4×25            | 0.20 | 0.70                                    | ELXQ451VSN101MQ25S |
|          | 680      | 35×45              | 0.15 | 2.34                                    | ELXQ351VSN681MA45S |          | 120      | 22×35              | 0.20 | 0.77                                    | ELXQ451VSN121MP35S |
|          | 820      | 35×50              | 0.15 | 2.62                                    | ELXQ351VSN821MA50S |          | 150      | 22×40              | 0.20 | 0.88                                    | ELXQ451VSN151MP40S |
|          | 100      | 22×25              | 0.15 | 0.66                                    | ELXQ401VSN101MP25S |          | 150      | 22×45              | 0.20 | 0.90                                    | ELXQ451VSN151MP45S |
|          | 120      | 22×30              | 0.15 | 0.75                                    | ELXQ401VSN121MP30S |          | 150      | 25.4×30            | 0.20 | 0.88                                    | ELXQ451VSN151MQ30S |
|          | 150      | 22×35              | 0.15 | 0.86                                    | ELXQ401VSN151MP35S |          | 150      | 25.4×35            | 0.20 | 0.92                                    | ELXQ451VSN151MQ35S |
|          | 150      | 25.4×25            | 0.15 | 0.86                                    | ELXQ401VSN151MQ25S |          | 150      | 30×25              | 0.20 | 0.93                                    | ELXQ451VSN151MR25S |
|          | 180      | 22×40              | 0.15 | 0.96                                    | ELXQ401VSN181MP40S |          | 180      | 22×50              | 0.20 | 1.01                                    | ELXQ451VSN181MP50S |
|          | 180      | 25.4×30            | 0.15 | 0.97                                    | ELXQ401VSN181MQ30S |          | 180      | 25.4×40            | 0.20 | 1.03                                    | ELXQ451VSN181MQ40S |
|          | 180      | 30×25              | 0.15 | 1.02                                    | ELXQ401VSN181MR25S |          | 180      | 30×30              | 0.20 | 1.03                                    | ELXQ451VSN181MR30S |
|          | 220      | 22×45              | 0.15 | 1.09                                    | ELXQ401VSN221MP45S |          | 180      | 35×25              | 0.20 | 1.10                                    | ELXQ451VSN181MA25S |
|          | 220      | 25.4×35            | 0.15 | 1.12                                    | ELXQ401VSN221MQ35S |          | 220      | 25.4×45            | 0.20 | 1.16                                    | ELXQ451VSN221MQ45S |
|          | 220      | 35×25              | 0.15 | 1.22                                    | ELXQ401VSN221MA25S |          | 220      | 30×35              | 0.20 | 1.17                                    | ELXQ451VSN221MR35S |
|          | 270      | 22×50              | 0.15 | 1.23                                    | ELXQ401VSN271MP50S |          | 220      | 35×30              | 0.20 | 1.24                                    | ELXQ451VSN221MA30S |
|          | 270      | 25.4×40            | 0.15 | 1.26                                    | ELXQ401VSN271MQ40S |          | 270      | 25.4×50            | 0.20 | 1.31                                    | ELXQ451VSN271MQ50S |
|          | 270      | 25.4×45            | 0.15 | 1.29                                    | ELXQ401VSN271MQ45S |          | 270      | 30×40              | 0.20 | 1.33                                    | ELXQ451VSN271MR40S |
|          | 270      | 30×30              | 0.15 | 1.27                                    | ELXQ401VSN271MR30S |          | 270      | 35×35              | 0.20 | 1.39                                    | ELXQ451VSN271MA35S |
|          | 330      | 25.4×50            | 0.15 | 1.44                                    | ELXQ401VSN331MQ50S |          | 330      | 30×45              | 0.20 | 1.51                                    | ELXQ451VSN331MR45S |
|          | 330      | 30×35              | 0.15 | 1.43                                    | ELXQ401VSN331MR35S |          | 390      | 30×50              | 0.20 | 1.67                                    | ELXQ451VSN391MR50S |
|          | 330      | 35×30              | 0.15 | 1.52                                    | ELXQ401VSN331MA30S |          | 390      | 35×40              | 0.20 | 1.73                                    | ELXQ451VSN391MA40S |
|          | 390      | 30×40              | 0.15 | 1.60                                    | ELXQ401VSN391MR40S |          | 390      | 35×45              | 0.20 | 1.77                                    | ELXQ451VSN391MA45S |
|          | 390      | 35×35              | 0.15 | 1.67                                    | ELXQ401VSN391MA35S |          | 470      | 35×50              | 0.20 | 1.98                                    | ELXQ451VSN471MA50S |

## ◆RATED RIPPLE CURRENT MULTIPLIERS

### ●Frequency Multipliers

| Frequency (Hz)            | 50   | 120  | 300  | 1k   | 10k  | 50k  |
|---------------------------|------|------|------|------|------|------|
| 160 to 250V <sub>dc</sub> | 0.81 | 1.00 | 1.17 | 1.32 | 1.45 | 1.50 |
| 315 to 450V <sub>dc</sub> | 0.77 | 1.00 | 1.16 | 1.30 | 1.41 | 1.43 |

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.

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