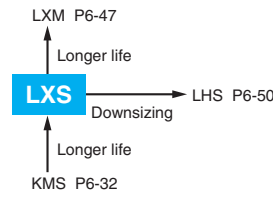


LXS Series

- For solar power generation
- Endurance with ripple current : 5,000 hours at 105°C
- Rated voltage range : 160 to 550V
- Downsized from LXQ series
- Non solvent resistant type
- RoHS2 Compliant



**550V
Lineup!**

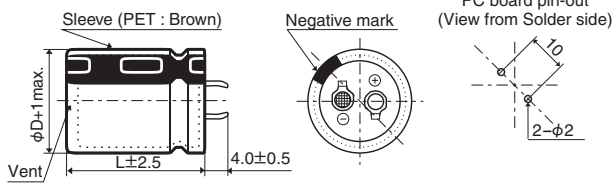


◆ SPECIFICATIONS

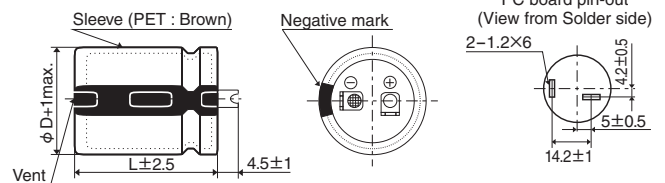
| Items | Characteristics | | |
|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------|
| Category | -25 to +105°C | | |
| Temperature Range | -25 to +105°C | | |
| Rated Voltage Range | 160 to 550V _{dc} | | |
| Capacitance Tolerance | ±20% (M) (at 20°C, 120Hz) | | |
| Leakage Current | I ≤ 3/CV Where, I : Max. leakage current (µA), C : Nominal capacitance (µF), V : Rated voltage (V) (at 20°C after 5 minutes) | | |
| Dissipation Factor (tan δ) | Rated voltage (V _{dc}) | 160 to 400V | 420 to 550V |
| | tan δ (Max.) | 0.15 | 0.20 |
| Low Temperature Characteristics (Max. Impedance Ratio) | Rated voltage (V _{dc}) | 160 to 400V | 420 to 550V |
| | Z(-25°C)/Z(+20°C) | 4 | 8 |
| 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 (the peak voltage shall not exceed the rated voltage) for 5,000 hours at 105°C. | | |
| | Capacitance change | ≤ ±20% of the initial value | |
| | D.F. (tan δ) | ≤ 200% of the initial specified value (500V _{dc} : ≤ 250%, 550V _{dc} : ≤ 300%) | |
| | 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. (tan δ) | ≤ 150% of the initial specified value | |
| | Leakage current | ≤ The initial specified value | |

◆ DIMENSIONS [mm]

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

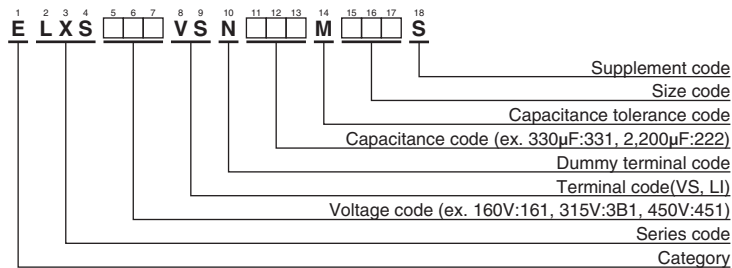


● Terminal Code : LI (φ30, φ35)



The standard design has no plastic disc.

◆ PART NUMBERING SYSTEM



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

◆STANDARD RATINGS

| WV (V _{dc}) | Cap (μF) | Case size φD×L(mm) | tan δ | Rated ripple current (Arms/105°C, 120Hz) | Part No. | WV (V _{dc}) | Cap (μF) | Case size φD×L(mm) | tan δ | Rated ripple current (Arms/105°C, 120Hz) | Part No. |
|-----------------------|----------|--------------------|-------|------------------------------------------|--------------------|-----------------------|----------|--------------------|--------------------|------------------------------------------|--------------------|
| 400 | 390 | 25.4 × 50 | 0.15 | 1.66 | ELXS401VSN391MQ50S | 450 | 180 | 22 × 45 | 0.20 | 1.06 | ELXS451VSN181MP45S |
| | 390 | 30 × 35 | 0.15 | 1.61 | ELXS401VSN391MR35S | | 180 | 25.4 × 35 | 0.20 | 1.06 | ELXS451VSN181MQ35S |
| | 390 | 35 × 30 | 0.15 | 1.68 | ELXS401VSN391MA30S | | 180 | 30 × 25 | 0.20 | 1.06 | ELXS451VSN181MR25S |
| | 470 | 30 × 40 | 0.15 | 1.82 | ELXS401VSN471MR40S | | 220 | 22 × 50 | 0.20 | 1.20 | ELXS451VSN221MP50S |
| | 470 | 35 × 35 | 0.15 | 1.88 | ELXS401VSN471MA35S | | 220 | 25.4 × 40 | 0.20 | 1.20 | ELXS451VSN221MQ40S |
| | 560 | 30 × 45 | 0.15 | 2.04 | ELXS401VSN561MR45S | | 220 | 30 × 30 | 0.20 | 1.18 | ELXS451VSN221MR30S |
| | 560 | 30 × 50 | 0.15 | 2.07 | ELXS401VSN561MR50S | | 220 | 35 × 25 | 0.20 | 1.24 | ELXS451VSN221MA25S |
| | 560 | 35 × 40 | 0.15 | 2.13 | ELXS401VSN561MA40S | | 270 | 25.4 × 45 | 0.20 | 1.36 | ELXS451VSN271MQ45S |
| | 680 | 35 × 45 | 0.15 | 2.40 | ELXS401VSN681MA45S | | 270 | 25.4 × 50 | 0.20 | 1.38 | ELXS451VSN271MQ50S |
| | 820 | 35 × 50 | 0.15 | 2.69 | ELXS401VSN821MA50S | | 270 | 30 × 35 | 0.20 | 1.34 | ELXS451VSN271MR35S |
| 420 | 100 | 22 × 25 | 0.20 | 0.70 | ELXS421VSN101MP25S | 270 | 35 × 30 | 0.20 | 1.40 | ELXS451VSN271MA30S | |
| | 120 | 22 × 30 | 0.20 | 0.81 | ELXS421VSN121MP30S | 330 | 30 × 40 | 0.20 | 1.52 | ELXS451VSN331MR40S | |
| | 120 | 25.4 × 25 | 0.20 | 0.81 | ELXS421VSN121MQ25S | 390 | 30 × 45 | 0.20 | 1.70 | ELXS451VSN391MR45S | |
| | 150 | 22 × 35 | 0.20 | 0.93 | ELXS421VSN151MP35S | 390 | 30 × 50 | 0.20 | 1.73 | ELXS451VSN391MR50S | |
| | 180 | 22 × 40 | 0.20 | 1.04 | ELXS421VSN181MP40S | 390 | 35 × 35 | 0.20 | 1.71 | ELXS451VSN391MA35S | |
| | 180 | 25.4 × 30 | 0.20 | 1.02 | ELXS421VSN181MQ30S | 470 | 35 × 40 | 0.20 | 1.95 | ELXS451VSN471MA40S | |
| | 180 | 30 × 25 | 0.20 | 1.06 | ELXS421VSN181MR25S | 470 | 35 × 45 | 0.20 | 1.99 | ELXS451VSN471MA45S | |
| | 220 | 22 × 45 | 0.20 | 1.17 | ELXS421VSN221MP45S | 560 | 35 × 50 | 0.20 | 2.22 | ELXS451VSN561MA50S | |
| | 220 | 22 × 50 | 0.20 | 1.20 | ELXS421VSN221MP50S | 100 | 30 × 25 | 0.20 | 0.82 | ELXS501VSN101MR25S | |
| | 220 | 25.4 × 35 | 0.20 | 1.18 | ELXS421VSN221MQ35S | 120 | 30 × 30 | 0.20 | 0.91 | ELXS501VSN121MR30S | |
| | 270 | 25.4 × 40 | 0.20 | 1.33 | ELXS421VSN271MQ40S | 120 | 35 × 25 | 0.20 | 0.88 | ELXS501VSN121MA25S | |
| | 270 | 25.4 × 45 | 0.20 | 1.36 | ELXS421VSN271MQ45S | 150 | 30 × 35 | 0.20 | 1.04 | ELXS501VSN151MR35S | |
| | 270 | 30 × 30 | 0.20 | 1.31 | ELXS421VSN271MR30S | 180 | 30 × 40 | 0.20 | 1.17 | ELXS501VSN181MR40S | |
| | 270 | 35 × 25 | 0.20 | 1.38 | ELXS421VSN271MA25S | 180 | 35 × 30 | 0.20 | 1.10 | ELXS501VSN181MA30S | |
| | 330 | 25.4 × 50 | 0.20 | 1.52 | ELXS421VSN331MQ50S | 220 | 30 × 45 | 0.20 | 1.33 | ELXS501VSN221MR45S | |
| | 330 | 30 × 35 | 0.20 | 1.48 | ELXS421VSN331MR35S | 220 | 35 × 35 | 0.20 | 1.23 | ELXS501VSN221MA35S | |
| | 330 | 35 × 30 | 0.20 | 1.55 | ELXS421VSN331MA30S | 270 | 30 × 50 | 0.20 | 1.50 | ELXS501VSN271MR50S | |
| | 390 | 30 × 40 | 0.20 | 1.66 | ELXS421VSN391MR40S | 270 | 35 × 40 | 0.20 | 1.42 | ELXS501VSN271MA40S | |
| | 390 | 30 × 45 | 0.20 | 1.70 | ELXS421VSN391MR45S | 330 | 35 × 45 | 0.20 | 1.60 | ELXS501VSN331MA45S | |
| | 390 | 35 × 35 | 0.20 | 1.71 | ELXS421VSN391MA35S | 390 | 35 × 50 | 0.20 | 1.78 | ELXS501VSN391MA50S | |
| 470 | 30 × 50 | 0.20 | 1.90 | ELXS421VSN471MR50S | 470 | 35 × 60 | 0.20 | 2.03 | ELXS501VSN471MA60S | | |
| 470 | 35 × 40 | 0.20 | 1.95 | ELXS421VSN471MA40S | 120 | 30 × 30 | 0.20 | 0.91 | ELXS551VSN121MR30S | | |
| 560 | 35 × 45 | 0.20 | 2.17 | ELXS421VSN561MA45S | 150 | 30 × 35 | 0.20 | 1.04 | ELXS551VSN151MR35S | | |
| 680 | 35 × 50 | 0.20 | 2.45 | ELXS421VSN681MA50S | 180 | 30 × 40 | 0.20 | 1.17 | ELXS551VSN181MR40S | | |
| 450 | 82 | 22 × 25 | 0.20 | 0.64 | ELXS451VSN820MP25S | 180 | 35 × 30 | 0.20 | 1.10 | ELXS551VSN181MA30S | |
| | 120 | 22 × 30 | 0.20 | 0.81 | ELXS451VSN121MP30S | 220 | 30 × 50 | 0.20 | 1.35 | ELXS551VSN221MR50S | |
| | 120 | 22 × 35 | 0.20 | 0.83 | ELXS451VSN121MP35S | 220 | 35 × 40 | 0.20 | 1.28 | ELXS551VSN221MA40S | |
| | 120 | 25.4 × 25 | 0.20 | 0.81 | ELXS451VSN121MQ25S | 270 | 35 × 45 | 0.20 | 1.45 | ELXS551VSN271MA45S | |
| | 150 | 22 × 40 | 0.20 | 0.94 | ELXS451VSN151MP40S | 330 | 35 × 50 | 0.20 | 1.64 | ELXS551VSN331MA50S | |
| | 150 | 25.4 × 30 | 0.20 | 0.93 | ELXS451VSN151MQ30S | 390 | 35 × 60 | 0.20 | 1.85 | ELXS551VSN391MA60S | |

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

| Frequency(Hz) | 50 | 120 | 300 | 1k | 10k | 50k |
|---------------------------|------|------|------|------|------|------|
| 160 to 250V _{dc} | 0.81 | 1.00 | 1.17 | 1.32 | 1.45 | 1.50 |
| 315 to 450V _{dc} | 0.77 | 1.00 | 1.16 | 1.30 | 1.41 | 1.43 |
| 500, 550V _{dc} | 0.70 | 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.