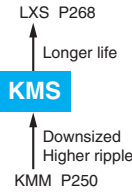


KMS Series

- For solar power generation
- Endurance with ripple current : 105°C 3,000 hours
- Rated voltage range : 160 to 500V
- Capacitance range : 47 to 3,300μF
- Non solvent resistant type
- RoHS Compliant



500V Lineup!

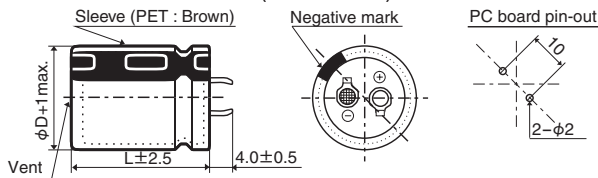


◆ SPECIFICATIONS

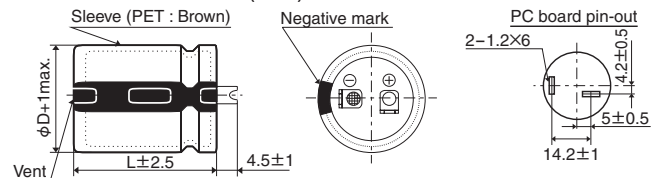
| Items | Characteristics | | |
|--|---|---------------------------------------|-------------|
| Category | -25 to +105°C | | |
| Temperature Range | -25 to +105°C | | |
| Rated Voltage Range | 160 to 500V _{dc} | | |
| Capacitance Tolerance | ±20% (M) (at 20°C, 120Hz) | | |
| Leakage Current | I ≤ 3/CV 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 500V |
| | tan δ (Max.) | 0.15 | 0.20 |
| Low Temperature Characteristics (Max. Impedance Ratio) | Rated voltage (V _{dc}) | 160 to 400V | 420 to 500V |
| | 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 3,000 hours at 105°C. | | |
| | Capacitance change | ≤ ±20% of the initial value | |
| | D.F. (tan δ) | ≤ 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. (tan δ) | ≤ 150% of the initial specified value | |
| | Leakage current | ≤ The initial specified value | |

◆ DIMENSIONS [mm]

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

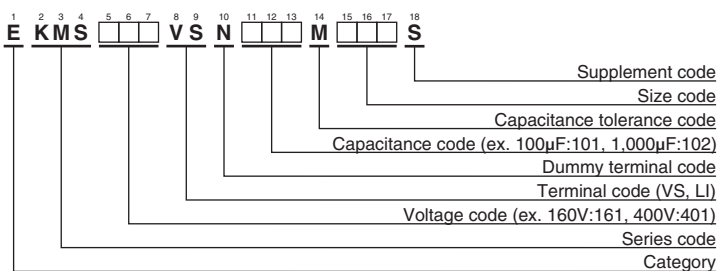


● Terminal Code : LI (φ35)



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. |
|--------------------------|-------------|-----------------------|-------|--|--------------------|--------------------------|-------------|-----------------------|--------------------|--|--------------------|
| | | | | | | | | | | | |
| 160 | 470 | 22 × 25 | 0.15 | 1.47 | EKMS161VSN471MP25S | 200 | 1,800 | 30 × 45 | 0.15 | 3.66 | EKMS201VSN182MR45S |
| | 680 | 22 × 30 | 0.15 | 1.86 | EKMS161VSN681MP30S | | 1,800 | 30 × 50 | 0.15 | 3.72 | EKMS201VSN182MR50S |
| | 680 | 25.4 × 25 | 0.15 | 1.84 | EKMS161VSN681MQ25S | | 1,800 | 35 × 40 | 0.15 | 3.81 | EKMS201VSN182MA40S |
| | 820 | 22 × 35 | 0.15 | 2.09 | EKMS161VSN821MP35S | | 2,200 | 35 × 45 | 0.15 | 4.32 | EKMS201VSN222MA45S |
| | 820 | 25.4 × 30 | 0.15 | 2.08 | EKMS161VSN821MQ30S | | 2,700 | 35 × 50 | 0.15 | 4.88 | EKMS201VSN272MA50S |
| | 1,000 | 22 × 40 | 0.15 | 2.35 | EKMS161VSN102MP40S | | 270 | 22 × 25 | 0.15 | 1.11 | EKMS251VSN271MP25S |
| | 1,000 | 22 × 45 | 0.15 | 2.40 | EKMS161VSN102MP45S | | 330 | 22 × 30 | 0.15 | 1.29 | EKMS251VSN331MP30S |
| | 1,000 | 25.4 × 35 | 0.15 | 2.40 | EKMS161VSN102MQ35S | | 390 | 22 × 35 | 0.15 | 1.44 | EKMS251VSN391MP35S |
| | 1,000 | 30 × 25 | 0.15 | 2.50 | EKMS161VSN102MR25S | | 390 | 25.4 × 25 | 0.15 | 1.40 | EKMS251VSN391MQ25S |
| | 1,200 | 22 × 50 | 0.15 | 2.69 | EKMS161VSN122MP50S | | 470 | 22 × 40 | 0.15 | 1.61 | EKMS251VSN471MP40S |
| | 1,200 | 25.4 × 40 | 0.15 | 2.68 | EKMS161VSN122MQ40S | 470 | 25.4 × 30 | 0.15 | 1.57 | EKMS251VSN471MQ30S | |
| | 1,200 | 30 × 30 | 0.15 | 2.77 | EKMS161VSN122MR30S | 560 | 22 × 45 | 0.15 | 1.79 | EKMS251VSN561MP45S | |
| | 1,200 | 35 × 25 | 0.15 | 2.91 | EKMS161VSN122MA25S | 560 | 25.4 × 35 | 0.15 | 1.79 | EKMS251VSN561MQ35S | |
| | 1,500 | 25.4 × 45 | 0.15 | 3.05 | EKMS161VSN152MQ45S | 560 | 30 × 25 | 0.15 | 1.87 | EKMS251VSN561MR25S | |
| | 1,500 | 30 × 35 | 0.15 | 3.17 | EKMS161VSN152MR35S | 680 | 22 × 50 | 0.15 | 2.02 | EKMS251VSN681MP50S | |
| | 1,800 | 25.4 × 50 | 0.15 | 3.40 | EKMS161VSN182MQ50S | 680 | 25.4 × 40 | 0.15 | 2.02 | EKMS251VSN681MQ40S | |
| | 1,800 | 30 × 40 | 0.15 | 3.57 | EKMS161VSN182MR40S | 680 | 30 × 30 | 0.15 | 2.08 | EKMS251VSN681MR30S | |
| | 1,800 | 35 × 30 | 0.15 | 3.62 | EKMS161VSN182MA30S | 680 | 35 × 25 | 0.15 | 2.19 | EKMS251VSN681MA25S | |
| | 2,200 | 30 × 45 | 0.15 | 4.05 | EKMS161VSN222MQ45S | 820 | 25.4 × 45 | 0.15 | 2.26 | EKMS251VSN821MQ45S | |
| | 2,200 | 35 × 35 | 0.15 | 4.07 | EKMS161VSN222MA35S | 820 | 30 × 35 | 0.15 | 2.34 | EKMS251VSN821MR35S | |
| 2,700 | 30 × 50 | 0.15 | 4.56 | EKMS161VSN272MR50S | 1,000 | 25.4 × 50 | 0.15 | 2.53 | EKMS251VSN102MQ50S | | |
| 2,700 | 35 × 40 | 0.15 | 4.67 | EKMS161VSN272MA40S | 1,000 | 30 × 40 | 0.15 | 2.66 | EKMS251VSN102MR40S | | |
| 2,700 | 35 × 45 | 0.15 | 4.78 | EKMS161VSN272MA45S | 1,000 | 35 × 30 | 0.15 | 2.70 | EKMS251VSN102MA30S | | |
| 3,300 | 35 × 50 | 0.15 | 5.40 | EKMS161VSN332MA50S | 1,200 | 30 × 45 | 0.15 | 2.99 | EKMS251VSN122MR45S | | |
| 180 | 390 | 22 × 25 | 0.15 | 1.34 | EKMS181VSN391MP25S | 1,200 | 30 × 50 | 0.15 | 3.04 | EKMS251VSN122MR50S | |
| | 560 | 22 × 30 | 0.15 | 1.68 | EKMS181VSN561MP30S | 1,200 | 35 × 35 | 0.15 | 3.00 | EKMS251VSN122MA35S | |
| | 560 | 25.4 × 25 | 0.15 | 1.67 | EKMS181VSN561MQ25S | 1,500 | 35 × 40 | 0.15 | 3.48 | EKMS251VSN152MA40S | |
| | 680 | 22 × 35 | 0.15 | 1.90 | EKMS181VSN681MP35S | 1,500 | 35 × 45 | 0.15 | 3.56 | EKMS251VSN152MA45S | |
| | 820 | 22 × 40 | 0.15 | 2.13 | EKMS181VSN821MP40S | 1,800 | 35 × 50 | 0.15 | 3.98 | EKMS251VSN182MA50S | |
| | 820 | 25.4 × 30 | 0.15 | 2.08 | EKMS181VSN821MQ30S | 180 | 22 × 25 | 0.15 | 0.95 | EKMS3B1VSN181MP25S | |
| | 820 | 30 × 25 | 0.15 | 2.26 | EKMS181VSN821MR25S | 220 | 22 × 30 | 0.15 | 1.10 | EKMS3B1VSN221MP30S | |
| | 1,000 | 22 × 45 | 0.15 | 2.40 | EKMS181VSN102MP45S | 220 | 25.4 × 25 | 0.15 | 1.10 | EKMS3B1VSN221MQ25S | |
| | 1,000 | 22 × 50 | 0.15 | 2.45 | EKMS181VSN102MP50S | 270 | 22 × 35 | 0.15 | 1.24 | EKMS3B1VSN271MP35S | |
| | 1,000 | 25.4 × 35 | 0.15 | 2.40 | EKMS181VSN102MQ35S | 330 | 22 × 40 | 0.15 | 1.40 | EKMS3B1VSN331MP40S | |
| | 1,000 | 25.4 × 40 | 0.15 | 2.45 | EKMS181VSN102MQ40S | 330 | 25.4 × 30 | 0.15 | 1.38 | EKMS3B1VSN331MQ30S | |
| | 1,000 | 30 × 30 | 0.15 | 2.52 | EKMS181VSN102MR30S | 330 | 30 × 25 | 0.15 | 1.43 | EKMS3B1VSN331MR25S | |
| | 1,200 | 25.4 × 45 | 0.15 | 2.73 | EKMS181VSN122MQ45S | 390 | 22 × 45 | 0.15 | 1.56 | EKMS3B1VSN391MP45S | |
| | 1,200 | 30 × 35 | 0.15 | 2.83 | EKMS181VSN122MR35S | 390 | 22 × 50 | 0.15 | 1.59 | EKMS3B1VSN391MP50S | |
| | 1,200 | 35 × 25 | 0.15 | 2.91 | EKMS181VSN122MA25S | 390 | 25.4 × 35 | 0.15 | 1.57 | EKMS3B1VSN391MQ35S | |
| | 1,500 | 25.4 × 50 | 0.15 | 3.10 | EKMS181VSN152MQ50S | 470 | 25.4 × 40 | 0.15 | 1.76 | EKMS3B1VSN471MQ40S | |
| | 1,500 | 30 × 40 | 0.15 | 3.26 | EKMS181VSN152MR40S | 470 | 30 × 30 | 0.15 | 1.73 | EKMS3B1VSN471MR30S | |
| | 1,500 | 35 × 30 | 0.15 | 3.31 | EKMS181VSN152MA30S | 470 | 35 × 25 | 0.15 | 1.82 | EKMS3B1VSN471MA25S | |
| | 1,800 | 30 × 45 | 0.15 | 3.66 | EKMS181VSN182MR45S | 560 | 25.4 × 45 | 0.15 | 1.96 | EKMS3B1VSN561MQ45S | |
| | 1,800 | 35 × 35 | 0.15 | 3.68 | EKMS181VSN182MA35S | 560 | 25.4 × 50 | 0.15 | 1.99 | EKMS3B1VSN561MQ50S | |
| 2,200 | 30 × 50 | 0.15 | 4.11 | EKMS181VSN222MR50S | 560 | 30 × 35 | 0.15 | 1.93 | EKMS3B1VSN561MR35S | | |
| 2,200 | 35 × 40 | 0.15 | 4.22 | EKMS181VSN222MA40S | 560 | 35 × 30 | 0.15 | 2.02 | EKMS3B1VSN561MA30S | | |
| 2,700 | 35 × 45 | 0.15 | 4.78 | EKMS181VSN272MA45S | 680 | 30 × 40 | 0.15 | 2.19 | EKMS3B1VSN681MR40S | | |
| 2,700 | 35 × 50 | 0.15 | 4.88 | EKMS181VSN272MA50S | 680 | 35 × 35 | 0.15 | 2.26 | EKMS3B1VSN681MA35S | | |
| 200 | 390 | 22 × 25 | 0.15 | 1.34 | EKMS201VSN391MP25S | 820 | 30 × 45 | 0.15 | 2.47 | EKMS3B1VSN821MR45S | |
| | 470 | 22 × 30 | 0.15 | 1.54 | EKMS201VSN471MP30S | 820 | 30 × 50 | 0.15 | 2.51 | EKMS3B1VSN821MR50S | |
| | 560 | 22 × 35 | 0.15 | 1.72 | EKMS201VSN561MP35S | 820 | 35 × 40 | 0.15 | 2.57 | EKMS3B1VSN821MA40S | |
| | 560 | 25.4 × 25 | 0.15 | 1.67 | EKMS201VSN561MQ25S | 1,000 | 35 × 45 | 0.15 | 2.91 | EKMS3B1VSN102MA45S | |
| | 680 | 22 × 40 | 0.15 | 1.94 | EKMS201VSN681MP40S | 1,200 | 35 × 50 | 0.15 | 3.25 | EKMS3B1VSN122MA50S | |
| | 680 | 25.4 × 30 | 0.15 | 1.89 | EKMS201VSN681MQ30S | 120 | 22 × 25 | 0.15 | 0.77 | EKMS401VSN121MP25S | |
| | 820 | 22 × 45 | 0.15 | 2.17 | EKMS201VSN821MP45S | 150 | 22 × 30 | 0.15 | 0.90 | EKMS401VSN151MP30S | |
| | 820 | 25.4 × 35 | 0.15 | 2.17 | EKMS201VSN821MQ35S | 180 | 22 × 35 | 0.15 | 1.02 | EKMS401VSN181MP35S | |
| | 820 | 30 × 25 | 0.15 | 2.26 | EKMS201VSN821MR25S | 180 | 25.4 × 25 | 0.15 | 0.99 | EKMS401VSN181MQ25S | |
| | 1,000 | 22 × 50 | 0.15 | 2.45 | EKMS201VSN102MP50S | 220 | 22 × 40 | 0.15 | 1.15 | EKMS401VSN221MP40S | |
| | 1,000 | 25.4 × 40 | 0.15 | 2.45 | EKMS201VSN102MQ40S | 220 | 25.4 × 30 | 0.15 | 1.13 | EKMS401VSN221MQ30S | |
| | 1,000 | 30 × 30 | 0.15 | 2.52 | EKMS201VSN102MR30S | 270 | 22 × 45 | 0.15 | 1.29 | EKMS401VSN271MP45S | |
| | 1,000 | 35 × 25 | 0.15 | 2.66 | EKMS201VSN102MA25S | 270 | 25.4 × 35 | 0.15 | 1.30 | EKMS401VSN271MQ35S | |
| | 1,200 | 25.4 × 45 | 0.15 | 2.73 | EKMS201VSN122MQ45S | 270 | 30 × 25 | 0.15 | 1.29 | EKMS401VSN271MR25S | |
| | 1,200 | 25.4 × 50 | 0.15 | 2.78 | EKMS201VSN122MQ50S | 330 | 22 × 50 | 0.15 | 1.47 | EKMS401VSN331MP50S | |
| | 1,200 | 30 × 35 | 0.15 | 2.83 | EKMS201VSN122MR35S | 330 | 25.4 × 40 | 0.15 | 1.47 | EKMS401VSN331MQ40S | |
| | 1,200 | 35 × 30 | 0.15 | 2.96 | EKMS201VSN122MA30S | 330 | 30 × 30 | 0.15 | 1.45 | EKMS401VSN331MR30S | |
| | 1,500 | 30 × 40 | 0.15 | 3.26 | EKMS201VSN152MR40S | 330 | 35 × 25 | 0.15 | 1.52 | EKMS401VSN331MA25S | |
| | 1,500 | 35 × 35 | 0.15 | 3.36 | EKMS201VSN152MA35S | 390 | 25.4 × 45 | 0.15 | 1.63 | EKMS401VSN391MQ45S | |

◆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 | EKMS401VSN391MQ50S | 450 | 180 | 25.4 × 35 | 0.20 | 1.06 | EKMS451VSN181MQ35S |
| | 390 | 30 × 35 | 0.15 | 1.61 | EKMS401VSN391MR35S | | 180 | 30 × 25 | 0.20 | 1.06 | EKMS451VSN181MR25S |
| | 470 | 30 × 40 | 0.15 | 1.82 | EKMS401VSN471MR40S | | 220 | 22 × 50 | 0.20 | 1.20 | EKMS451VSN221MP50S |
| | 470 | 35 × 30 | 0.15 | 1.85 | EKMS401VSN471MA30S | | 220 | 25.4 × 40 | 0.20 | 1.20 | EKMS451VSN221MQ40S |
| | 560 | 30 × 45 | 0.15 | 2.04 | EKMS401VSN561MR45S | | 220 | 30 × 30 | 0.20 | 1.18 | EKMS451VSN221MR30S |
| | 560 | 30 × 50 | 0.15 | 2.07 | EKMS401VSN561MR50S | | 220 | 35 × 25 | 0.20 | 1.24 | EKMS451VSN221MA25S |
| | 560 | 35 × 35 | 0.15 | 2.05 | EKMS401VSN561MA35S | | 270 | 25.4 × 45 | 0.20 | 1.36 | EKMS451VSN271MQ45S |
| | 680 | 35 × 40 | 0.15 | 2.34 | EKMS401VSN681MA40S | | 270 | 25.4 × 50 | 0.20 | 1.38 | EKMS451VSN271MQ50S |
| | 680 | 35 × 45 | 0.15 | 2.40 | EKMS401VSN681MA45S | | 270 | 30 × 35 | 0.20 | 1.34 | EKMS451VSN271MR35S |
| 820 | 35 × 50 | 0.15 | 2.69 | EKMS401VSN821MA50S | 270 | 35 × 30 | 0.20 | 1.40 | EKMS451VSN271MA30S | | |
| 420 | 100 | 22 × 25 | 0.20 | 0.70 | EKMS421VSN101MP25S | 330 | 30 × 40 | 0.20 | 1.52 | EKMS451VSN331MR40S | |
| | 120 | 22 × 30 | 0.20 | 0.81 | EKMS421VSN121MP30S | 390 | 30 × 45 | 0.20 | 1.70 | EKMS451VSN391MR45S | |
| | 120 | 25.4 × 25 | 0.20 | 0.81 | EKMS421VSN121MQ25S | 390 | 30 × 50 | 0.20 | 1.73 | EKMS451VSN391MR50S | |
| | 150 | 22 × 35 | 0.20 | 0.93 | EKMS421VSN151MP35S | 390 | 35 × 35 | 0.20 | 1.71 | EKMS451VSN391MA35S | |
| | 180 | 22 × 40 | 0.20 | 1.04 | EKMS421VSN181MP40S | 470 | 35 × 40 | 0.20 | 1.95 | EKMS451VSN471MA40S | |
| | 180 | 25.4 × 30 | 0.20 | 1.02 | EKMS421VSN181MQ30S | 470 | 35 × 45 | 0.20 | 1.99 | EKMS451VSN471MA45S | |
| | 180 | 30 × 25 | 0.20 | 1.06 | EKMS421VSN181MR25S | 560 | 35 × 50 | 0.20 | 2.22 | EKMS451VSN561MA50S | |
| | 220 | 22 × 45 | 0.20 | 1.17 | EKMS421VSN221MP45S | 47 | 22 × 25 | 0.20 | 0.51 | EKMS501VSN470MP25S | |
| | 220 | 22 × 50 | 0.20 | 1.20 | EKMS421VSN221MP50S | 56 | 22 × 30 | 0.20 | 0.58 | EKMS501VSN560MP30S | |
| | 220 | 25.4 × 35 | 0.20 | 1.18 | EKMS421VSN221MQ35S | 68 | 25.4 × 25 | 0.20 | 0.65 | EKMS501VSN680MQ25S | |
| | 220 | 30 × 30 | 0.20 | 1.18 | EKMS421VSN221MR30S | 82 | 22 × 35 | 0.20 | 0.72 | EKMS501VSN820MP35S | |
| | 270 | 25.4 × 40 | 0.20 | 1.33 | EKMS421VSN271MQ40S | 82 | 25.4 × 30 | 0.20 | 0.74 | EKMS501VSN820MQ30S | |
| | 270 | 25.4 × 45 | 0.20 | 1.36 | EKMS421VSN271MQ45S | 100 | 22 × 45 | 0.20 | 0.83 | EKMS501VSN101MP45S | |
| | 270 | 35 × 25 | 0.20 | 1.38 | EKMS421VSN271MA25S | 100 | 30 × 25 | 0.20 | 0.82 | EKMS501VSN101MR25S | |
| | 330 | 25.4 × 50 | 0.20 | 1.52 | EKMS421VSN331MQ50S | 120 | 22 × 50 | 0.20 | 0.93 | EKMS501VSN121MP50S | |
| | 330 | 30 × 35 | 0.20 | 1.48 | EKMS421VSN331MR35S | 120 | 25.4 × 35 | 0.20 | 0.93 | EKMS501VSN121MQ35S | |
| | 330 | 30 × 40 | 0.20 | 1.52 | EKMS421VSN331MR40S | 120 | 30 × 30 | 0.20 | 0.91 | EKMS501VSN121MR30S | |
| | 330 | 35 × 30 | 0.20 | 1.55 | EKMS421VSN331MA30S | 150 | 25.4 × 45 | 0.20 | 1.08 | EKMS501VSN151MQ45S | |
| 390 | 30 × 45 | 0.20 | 1.70 | EKMS421VSN391MR45S | 150 | 30 × 35 | 0.20 | 1.04 | EKMS501VSN151MR35S | | |
| 390 | 35 × 35 | 0.20 | 1.71 | EKMS421VSN391MA35S | 150 | 35 × 25 | 0.20 | 0.99 | EKMS501VSN151MA25S | | |
| 470 | 30 × 50 | 0.20 | 1.90 | EKMS421VSN471MR50S | 180 | 25.4 × 50 | 0.20 | 1.20 | EKMS501VSN181MQ50S | | |
| 470 | 35 × 40 | 0.20 | 1.95 | EKMS421VSN471MA40S | 180 | 30 × 40 | 0.20 | 1.17 | EKMS501VSN181MR40S | | |
| 560 | 35 × 45 | 0.20 | 2.17 | EKMS421VSN561MA45S | 180 | 35 × 30 | 0.20 | 1.10 | EKMS501VSN181MA30S | | |
| 680 | 35 × 50 | 0.20 | 2.45 | EKMS421VSN681MA50S | 220 | 30 × 45 | 0.20 | 1.33 | EKMS501VSN221MR45S | | |
| 450 | 82 | 22 × 25 | 0.20 | 0.64 | EKMS451VSN820MP25S | 220 | 35 × 35 | 0.20 | 1.23 | EKMS501VSN221MA35S | |
| | 120 | 22 × 30 | 0.20 | 0.81 | EKMS451VSN121MP30S | 270 | 30 × 50 | 0.20 | 1.50 | EKMS501VSN271MR50S | |
| | 120 | 22 × 35 | 0.20 | 0.83 | EKMS451VSN121MP35S | 270 | 35 × 40 | 0.20 | 1.42 | EKMS501VSN271MA40S | |
| | 120 | 25.4 × 25 | 0.20 | 0.81 | EKMS451VSN121MQ25S | 330 | 35 × 45 | 0.20 | 1.60 | EKMS501VSN331MA45S | |
| | 150 | 22 × 40 | 0.20 | 0.94 | EKMS451VSN151MP40S | 390 | 35 × 50 | 0.20 | 1.78 | EKMS501VSN391MA50S | |
| | 150 | 25.4 × 30 | 0.20 | 0.93 | EKMS451VSN151MQ30S | 470 | 35 × 60 | 0.20 | 2.03 | EKMS501VSN471MA60S | |
| | 180 | 22 × 45 | 0.20 | 1.06 | EKMS451VSN181MP45S | | | | | | |

◆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 |
| 500V _{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.