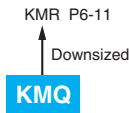


KMQ Series

- Endurance with ripple current : 2,000 hours at 105°C
- Non solvent resistant type
- RoHS2 Compliant



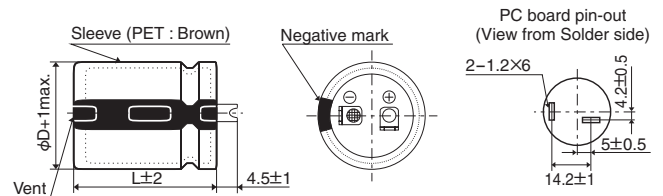
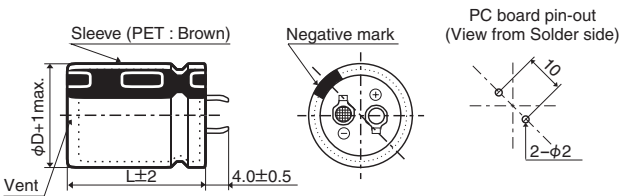
SPECIFICATIONS

| Items | Characteristics | | | | | | | | | | | | | |
|--|---|---------------------------------------|--|---------------------|--|-------------|--|-------------|--|------------|--|------|--|------|
| Category | -40 to +105°C (35&50V _{dc}), -25 to +105°C (160 to 450V _{dc}) | | | | | | | | | | | | | |
| Temperature Range | | | | | | | | | | | | | | |
| Rated Voltage Range | 35&50V _{dc} , 160 to 450V _{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}) | 35V | | 50V | | 160 to 250V | | 315 to 400V | | 420 & 450V | | | | |
| | Nominal capacitance (μF) | 10,000 > C ≥ 10,000 | | 10,000 > C ≥ 10,000 | | — | | — | | — | | | | |
| | tan δ (Max.) | 0.30 | | 0.35 | | 0.25 | | 0.30 | | 0.15 | | 0.15 | | 0.20 |
| Low Temperature Characteristics (Max. Impedance Ratio) | Rated voltage (V _{dc}) | 35&50V | | 160 to 250V | | 315 to 450V | | | | | | | | |
| | Z(-25°C)/Z(+20°C) | 4 | | 4 | | 8 | | | | | | | | |
| | Z(-40°C)/Z(+20°C) | 10 | | — | | — | | | | | | | | |
| 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 2,000 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]

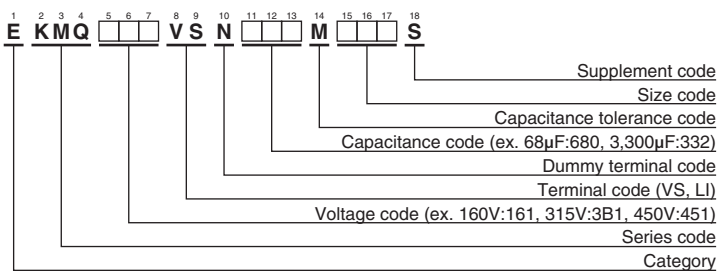
Terminal Code : VS (φ22 to φ35) : Standard

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. | |
|--------------------------|-------------|-----------------------|-------|--|--------------------|--------------------------|-------------|-----------------------|--------------------|--|--------------------|--------------------|
| | | | | | | | | | | | | |
| 35 | 4,700 | 22 × 25 | 0.30 | 1.87 | EKMQ350VSN472MP25S | 160 | 1,800 | 30 × 40 | 0.15 | 2.70 | EKMQ161VSN182MR40S | |
| | 5,600 | 22 × 25 | 0.30 | 2.04 | EKMQ350VSN562MP25S | | 1,800 | 35 × 30 | 0.15 | 2.70 | EKMQ161VSN182MA30S | |
| | 5,600 | 25.4 × 25 | 0.30 | 2.00 | EKMQ350VSN562MQ25S | | 2,200 | 30 × 45 | 0.15 | 2.90 | EKMQ161VSN222MR45S | |
| | 6,800 | 22 × 30 | 0.30 | 2.36 | EKMQ350VSN682MP30S | | 2,200 | 35 × 35 | 0.15 | 2.90 | EKMQ161VSN222MA35S | |
| | 6,800 | 25.4 × 25 | 0.30 | 2.21 | EKMQ350VSN682MQ25S | | 2,700 | 30 × 50 | 0.15 | 3.10 | EKMQ161VSN272MR50S | |
| | 8,200 | 22 × 35 | 0.30 | 2.65 | EKMQ350VSN822MP35S | | 2,700 | 35 × 40 | 0.15 | 3.10 | EKMQ161VSN272MA40S | |
| | 8,200 | 25.4 × 30 | 0.30 | 2.49 | EKMQ350VSN822MQ30S | | 3,300 | 35 × 50 | 0.15 | 3.30 | EKMQ161VSN332MA50S | |
| | 8,200 | 30 × 25 | 0.30 | 2.62 | EKMQ350VSN822MR25S | | 180 | 390 | 22 × 25 | 0.15 | 1.30 | EKMQ181VSN391MP25S |
| | 10,000 | 22 × 40 | 0.35 | 3.00 | EKMQ350VSN103MP40S | | | 470 | 22 × 30 | 0.15 | 1.40 | EKMQ181VSN471MP30S |
| | 10,000 | 25.4 × 35 | 0.35 | 2.88 | EKMQ350VSN103MQ35S | | | 560 | 22 × 30 | 0.15 | 1.50 | EKMQ181VSN561MP30S |
| | 10,000 | 30 × 25 | 0.35 | 2.90 | EKMQ350VSN103MR25S | 560 | | 25.4 × 25 | 0.15 | 1.50 | EKMQ181VSN102MR25S | |
| | 12,000 | 22 × 50 | 0.35 | 3.47 | EKMQ350VSN123MP50S | 680 | | 22 × 35 | 0.15 | 1.70 | EKMQ181VSN681MP35S | |
| | 12,000 | 25.4 × 35 | 0.35 | 3.15 | EKMQ350VSN123MQ35S | 680 | | 25.4 × 30 | 0.15 | 1.70 | EKMQ181VSN681MQ30S | |
| | 12,000 | 30 × 30 | 0.35 | 3.25 | EKMQ350VSN123MR30S | 820 | | 22 × 40 | 0.15 | 2.00 | EKMQ181VSN821MP40S | |
| | 12,000 | 35 × 25 | 0.35 | 3.20 | EKMQ350VSN123MA25S | 820 | | 25.4 × 30 | 0.15 | 2.00 | EKMQ181VSN102MR30S | |
| | 15,000 | 25.4 × 40 | 0.35 | 3.61 | EKMQ350VSN153MQ40S | 820 | | 30 × 25 | 0.15 | 2.00 | EKMQ181VSN821MR25S | |
| | 15,000 | 30 × 35 | 0.35 | 3.78 | EKMQ350VSN153MR35S | 1,000 | | 22 × 45 | 0.15 | 2.20 | EKMQ181VSN102MP45S | |
| | 15,000 | 35 × 25 | 0.35 | 3.60 | EKMQ350VSN153MA25S | 1,000 | 25.4 × 40 | 0.15 | 2.20 | EKMQ181VSN102MQ40S | | |
| | 18,000 | 25.4 × 50 | 0.35 | 4.14 | EKMQ350VSN183MQ50S | 1,000 | 30 × 30 | 0.15 | 2.20 | EKMQ181VSN102MR30S | | |
| | 18,000 | 30 × 40 | 0.35 | 4.30 | EKMQ350VSN183MR40S | 1,000 | 35 × 25 | 0.15 | 2.20 | EKMQ181VSN102MA25S | | |
| 18,000 | 35 × 30 | 0.35 | 4.10 | EKMQ350VSN183MA30S | 1,200 | 25.4 × 45 | 0.15 | 2.30 | EKMQ181VSN122MQ45S | | | |
| 22,000 | 30 × 50 | 0.35 | 5.00 | EKMQ350VSN223MR50S | 1,200 | 30 × 35 | 0.15 | 2.30 | EKMQ181VSN122MR35S | | | |
| 22,000 | 35 × 35 | 0.35 | 4.64 | EKMQ350VSN223MA35S | 1,200 | 35 × 30 | 0.15 | 2.30 | EKMQ181VSN122MA30S | | | |
| 27,000 | 35 × 40 | 0.35 | 5.37 | EKMQ350VSN273MA40S | 1,500 | 25.4 × 50 | 0.15 | 2.50 | EKMQ181VSN152MQ50S | | | |
| 33,000 | 35 × 50 | 0.35 | 6.00 | EKMQ350VSN333MA50S | 1,500 | 30 × 40 | 0.15 | 2.50 | EKMQ181VSN152MR40S | | | |
| 50 | 2,700 | 22 × 25 | 0.25 | 1.65 | EKMQ500VSN272MP25S | 1,500 | 35 × 30 | 0.15 | 2.50 | EKMQ181VSN152MA30S | | |
| | 3,300 | 22 × 30 | 0.25 | 1.92 | EKMQ500VSN332MP30S | 1,800 | 30 × 45 | 0.15 | 2.70 | EKMQ181VSN102MR45S | | |
| | 3,300 | 25.4 × 25 | 0.25 | 1.76 | EKMQ500VSN332MQ25S | 1,800 | 35 × 35 | 0.15 | 2.70 | EKMQ181VSN182MA35S | | |
| | 3,900 | 22 × 30 | 0.25 | 2.08 | EKMQ500VSN392MP30S | 2,200 | 30 × 50 | 0.15 | 2.90 | EKMQ181VSN222MR50S | | |
| | 3,900 | 25.4 × 25 | 0.25 | 2.04 | EKMQ500VSN392MQ25S | 2,200 | 35 × 40 | 0.15 | 2.90 | EKMQ181VSN222MA40S | | |
| | 4,700 | 22 × 35 | 0.25 | 2.43 | EKMQ500VSN472MP35S | 2,700 | 35 × 50 | 0.15 | 3.10 | EKMQ181VSN272MA50S | | |
| | 4,700 | 25.4 × 30 | 0.25 | 2.50 | EKMQ500VSN472MQ30S | 200 | 390 | 22 × 25 | 0.15 | 1.31 | EKMQ201VSN391MP25S | |
| | 4,700 | 30 × 25 | 0.25 | 2.29 | EKMQ500VSN472MR25S | | 470 | 22 × 30 | 0.15 | 1.45 | EKMQ201VSN471MP30S | |
| | 5,600 | 22 × 40 | 0.25 | 2.63 | EKMQ500VSN562MP40S | | 560 | 22 × 30 | 0.15 | 1.67 | EKMQ201VSN561MP30S | |
| | 5,600 | 25.4 × 35 | 0.25 | 2.61 | EKMQ500VSN562MQ35S | | 560 | 25.4 × 25 | 0.15 | 1.67 | EKMQ201VSN561MQ25S | |
| | 5,600 | 30 × 25 | 0.25 | 2.80 | EKMQ500VSN562MR25S | | 680 | 22 × 40 | 0.15 | 1.75 | EKMQ201VSN681MP40S | |
| | 6,800 | 22 × 50 | 0.25 | 3.05 | EKMQ500VSN682MP50S | | 680 | 25.4 × 30 | 0.15 | 1.75 | EKMQ201VSN681MQ30S | |
| | 6,800 | 25.4 × 40 | 0.25 | 2.94 | EKMQ500VSN682MQ40S | | 820 | 22 × 45 | 0.15 | 2.04 | EKMQ201VSN821MP45S | |
| | 6,800 | 30 × 30 | 0.25 | 3.30 | EKMQ500VSN682MR30S | | 820 | 25.4 × 35 | 0.15 | 2.04 | EKMQ201VSN821MQ35S | |
| | 6,800 | 35 × 25 | 0.25 | 2.77 | EKMQ500VSN682MA25S | | 820 | 30 × 25 | 0.15 | 2.04 | EKMQ201VSN821MR25S | |
| | 8,200 | 25.4 × 45 | 0.25 | 3.60 | EKMQ500VSN822MQ45S | | 1,000 | 22 × 50 | 0.15 | 2.30 | EKMQ201VSN102MP50S | |
| | 8,200 | 30 × 35 | 0.25 | 3.60 | EKMQ500VSN822MR35S | 1,000 | 25.4 × 45 | 0.15 | 2.30 | EKMQ201VSN102MQ45S | | |
| | 8,200 | 35 × 30 | 0.25 | 3.60 | EKMQ500VSN822MA30S | 1,000 | 30 × 30 | 0.15 | 2.30 | EKMQ201VSN102MR30S | | |
| | 10,000 | 25.4 × 50 | 0.30 | 4.00 | EKMQ500VSN103MQ50S | 1,000 | 35 × 25 | 0.15 | 2.30 | EKMQ201VSN102MA25S | | |
| | 10,000 | 30 × 40 | 0.30 | 4.00 | EKMQ500VSN103MR40S | 1,200 | 25.4 × 50 | 0.15 | 2.65 | EKMQ201VSN122MQ50S | | |
| 10,000 | 35 × 30 | 0.30 | 4.00 | EKMQ500VSN103MA30S | 1,200 | 30 × 35 | 0.15 | 2.65 | EKMQ201VSN122MR35S | | | |
| 12,000 | 30 × 50 | 0.30 | 4.29 | EKMQ500VSN123MR50S | 1,200 | 35 × 30 | 0.15 | 2.65 | EKMQ201VSN122MA30S | | | |
| 12,000 | 35 × 35 | 0.30 | 4.37 | EKMQ500VSN123MA35S | 1,500 | 30 × 40 | 0.15 | 2.80 | EKMQ201VSN152MR40S | | | |
| 15,000 | 35 × 40 | 0.30 | 4.50 | EKMQ500VSN153MA40S | 1,500 | 35 × 30 | 0.15 | 2.80 | EKMQ201VSN152MA30S | | | |
| 18,000 | 35 × 50 | 0.30 | 5.30 | EKMQ500VSN183MA50S | 1,800 | 30 × 45 | 0.15 | 3.08 | EKMQ201VSN182MR45S | | | |
| 160 | 470 | 22 × 25 | 0.15 | 1.40 | EKMQ161VSN471MP25S | 1,800 | 35 × 40 | 0.15 | 3.08 | EKMQ201VSN182MA40S | | |
| | 560 | 22 × 30 | 0.15 | 1.50 | EKMQ161VSN561MP30S | 2,200 | 35 × 45 | 0.15 | 3.48 | EKMQ201VSN222MA45S | | |
| | 680 | 22 × 30 | 0.15 | 1.70 | EKMQ161VSN681MP30S | 250 | 220 | 22 × 25 | 0.15 | 1.00 | EKMQ251VSN221MP25S | |
| | 680 | 25.4 × 25 | 0.15 | 1.70 | EKMQ161VSN681MQ25S | | 270 | 22 × 25 | 0.15 | 1.10 | EKMQ251VSN271MP25S | |
| | 820 | 22 × 35 | 0.15 | 2.00 | EKMQ161VSN821MP35S | | 330 | 22 × 30 | 0.15 | 1.20 | EKMQ251VSN331MP30S | |
| | 820 | 25.4 × 30 | 0.15 | 2.00 | EKMQ161VSN821MQ30S | | 330 | 25.4 × 25 | 0.15 | 1.20 | EKMQ251VSN331MQ25S | |
| | 820 | 30 × 25 | 0.15 | 2.00 | EKMQ161VSN821MR25S | | 390 | 22 × 35 | 0.15 | 1.30 | EKMQ251VSN391MP35S | |
| | 1,000 | 22 × 40 | 0.15 | 2.20 | EKMQ161VSN102MP40S | | 390 | 25.4 × 25 | 0.15 | 1.30 | EKMQ251VSN391MQ25S | |
| | 1,000 | 25.4 × 35 | 0.15 | 2.20 | EKMQ161VSN102MQ35S | | 470 | 22 × 40 | 0.15 | 1.40 | EKMQ251VSN471MP40S | |
| | 1,000 | 30 × 25 | 0.15 | 2.20 | EKMQ161VSN102MR25S | | 470 | 25.4 × 30 | 0.15 | 1.40 | EKMQ251VSN471MQ30S | |
| | 1,200 | 25.4 × 40 | 0.15 | 2.30 | EKMQ161VSN122MQ40S | | 470 | 30 × 25 | 0.15 | 1.40 | EKMQ251VSN471MR25S | |
| | 1,200 | 30 × 30 | 0.15 | 2.30 | EKMQ161VSN122MR30S | | 560 | 22 × 45 | 0.15 | 1.50 | EKMQ251VSN561MP45S | |
| | 1,200 | 35 × 25 | 0.15 | 2.30 | EKMQ161VSN122MA25S | 560 | 25.4 × 35 | 0.15 | 1.50 | EKMQ251VSN561MQ35S | | |
| | 1,500 | 25.4 × 45 | 0.15 | 2.50 | EKMQ161VSN152MQ45S | 560 | 30 × 25 | 0.15 | 1.50 | EKMQ251VSN561MR25S | | |
| | 1,500 | 30 × 35 | 0.15 | 2.50 | EKMQ161VSN152MR35S | 680 | 22 × 50 | 0.15 | 1.70 | EKMQ251VSN681MP50S | | |
| | 1,500 | 35 × 30 | 0.15 | 2.50 | EKMQ161VSN152MA30S | 680 | 25.4 × 40 | 0.15 | 1.70 | EKMQ251VSN681MQ40S | | |
| | 1,800 | 25.4 × 50 | 0.15 | 2.70 | EKMQ161VSN182MQ50S | 680 | 30 × 30 | 0.15 | 1.70 | EKMQ251VSN681MR30S | | |

◆ 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. |
|-----------------------|----------|--------------------|-------|--|--------------------|-----------------------|-----------|--------------------|--------------------|--|--------------------|
| 250 | 680 | 35 × 25 | 0.15 | 1.70 | EKMQ251VSN681MA25S | 400 | 270 | 25.4 × 40 | 0.15 | 1.22 | EKMQ401VSN271MQ40S |
| | 820 | 25.4 × 45 | 0.15 | 2.00 | EKMQ251VSN821MQ45S | | 270 | 30 × 30 | 0.15 | 1.22 | EKMQ401VSN271MR30S |
| | 820 | 30 × 35 | 0.15 | 2.00 | EKMQ251VSN821MR35S | | 270 | 35 × 25 | 0.15 | 1.22 | EKMQ401VSN271MA25S |
| | 820 | 35 × 30 | 0.15 | 2.00 | EKMQ251VSN821MA30S | | 330 | 25.4 × 45 | 0.15 | 1.44 | EKMQ401VSN331MQ45S |
| | 1,000 | 30 × 40 | 0.15 | 2.20 | EKMQ251VSN102MR40S | | 330 | 30 × 35 | 0.15 | 1.44 | EKMQ401VSN331MR35S |
| | 1,000 | 35 × 30 | 0.15 | 2.20 | EKMQ251VSN102MA30S | | 330 | 35 × 30 | 0.15 | 1.44 | EKMQ401VSN331MA30S |
| | 1,200 | 30 × 45 | 0.15 | 2.30 | EKMQ251VSN122MR45S | | 390 | 25.4 × 50 | 0.15 | 1.55 | EKMQ401VSN391MQ50S |
| | 1,200 | 35 × 35 | 0.15 | 2.30 | EKMQ251VSN122MA35S | | 390 | 30 × 40 | 0.15 | 1.55 | EKMQ401VSN391MR40S |
| | 1,500 | 35 × 45 | 0.15 | 2.50 | EKMQ251VSN152MA45S | | 390 | 35 × 30 | 0.15 | 1.55 | EKMQ401VSN391MA30S |
| | 1,800 | 35 × 50 | 0.15 | 2.70 | EKMQ251VSN182MA50S | | 470 | 30 × 45 | 0.15 | 1.68 | EKMQ401VSN471MR45S |
| 315 | 150 | 22 × 25 | 0.15 | 0.82 | EKMQ3B1VSN151MP25S | 470 | 35 × 35 | 0.15 | 1.68 | EKMQ401VSN471MA35S | |
| | 180 | 22 × 30 | 0.15 | 0.90 | EKMQ3B1VSN181MP30S | 560 | 30 × 50 | 0.15 | 1.90 | EKMQ401VSN561MR50S | |
| | 220 | 22 × 30 | 0.15 | 1.00 | EKMQ3B1VSN221MP30S | 560 | 35 × 40 | 0.15 | 1.90 | EKMQ401VSN561MA40S | |
| | 220 | 25.4 × 25 | 0.15 | 1.00 | EKMQ3B1VSN221MQ25S | 680 | 35 × 45 | 0.15 | 2.12 | EKMQ401VSN681MA45S | |
| | 270 | 22 × 35 | 0.15 | 1.10 | EKMQ3B1VSN271MP35S | 82 | 22 × 25 | 0.20 | 0.64 | EKMQ421VSN820MP25S | |
| | 270 | 25.4 × 30 | 0.15 | 1.10 | EKMQ3B1VSN271MQ30S | 100 | 22 × 25 | 0.20 | 0.66 | EKMQ421VSN101MP25S | |
| | 330 | 22 × 45 | 0.15 | 1.20 | EKMQ3B1VSN331MP45S | 100 | 25.4 × 25 | 0.20 | 0.66 | EKMQ421VSN101MQ25S | |
| | 330 | 25.4 × 35 | 0.15 | 1.20 | EKMQ3B1VSN331MQ35S | 120 | 22 × 30 | 0.20 | 0.81 | EKMQ421VSN121MP30S | |
| | 330 | 30 × 25 | 0.15 | 1.20 | EKMQ3B1VSN331MR25S | 120 | 25.4 × 25 | 0.20 | 0.81 | EKMQ421VSN121MQ25S | |
| | 390 | 22 × 45 | 0.15 | 1.30 | EKMQ3B1VSN391MP45S | 150 | 22 × 35 | 0.20 | 0.84 | EKMQ421VSN151MP35S | |
| | 390 | 25.4 × 40 | 0.15 | 1.30 | EKMQ3B1VSN391MQ40S | 150 | 25.4 × 30 | 0.20 | 0.84 | EKMQ421VSN151MQ30S | |
| | 390 | 30 × 30 | 0.15 | 1.30 | EKMQ3B1VSN391MR30S | 150 | 30 × 25 | 0.20 | 0.84 | EKMQ421VSN151MR25S | |
| | 390 | 35 × 25 | 0.15 | 1.30 | EKMQ3B1VSN391MA25S | 180 | 22 × 40 | 0.20 | 0.91 | EKMQ421VSN181MP40S | |
| | 470 | 25.4 × 45 | 0.15 | 1.40 | EKMQ3B1VSN471MQ45S | 180 | 25.4 × 30 | 0.20 | 0.91 | EKMQ421VSN181MQ30S | |
| | 470 | 30 × 35 | 0.15 | 1.40 | EKMQ3B1VSN471MR35S | 180 | 30 × 25 | 0.20 | 0.91 | EKMQ421VSN181MR25S | |
| | 470 | 35 × 25 | 0.15 | 1.40 | EKMQ3B1VSN471MA25S | 220 | 22 × 45 | 0.20 | 1.05 | EKMQ421VSN221MP45S | |
| | 560 | 25.4 × 50 | 0.15 | 1.50 | EKMQ3B1VSN561MQ50S | 220 | 25.4 × 35 | 0.20 | 1.05 | EKMQ421VSN221MQ35S | |
| | 560 | 30 × 40 | 0.15 | 1.50 | EKMQ3B1VSN561MR40S | 220 | 30 × 30 | 0.20 | 1.05 | EKMQ421VSN221MR30S | |
| | 560 | 35 × 30 | 0.15 | 1.50 | EKMQ3B1VSN561MA30S | 220 | 35 × 25 | 0.20 | 1.05 | EKMQ421VSN221MA25S | |
| | 680 | 30 × 45 | 0.15 | 1.70 | EKMQ3B1VSN681MR45S | 270 | 25.4 × 40 | 0.20 | 1.25 | EKMQ421VSN271MQ40S | |
| 680 | 35 × 35 | 0.15 | 1.70 | EKMQ3B1VSN681MA35S | 270 | 30 × 30 | 0.20 | 1.25 | EKMQ421VSN271MR30S | | |
| 820 | 30 × 50 | 0.15 | 2.00 | EKMQ3B1VSN821MR50S | 270 | 35 × 25 | 0.20 | 1.25 | EKMQ421VSN271MA25S | | |
| 820 | 35 × 40 | 0.15 | 2.00 | EKMQ3B1VSN821MA40S | 330 | 25.4 × 50 | 0.20 | 1.42 | EKMQ421VSN331MQ50S | | |
| 1,000 | 35 × 45 | 0.15 | 2.30 | EKMQ3B1VSN102MA45S | 330 | 30 × 35 | 0.20 | 1.42 | EKMQ421VSN331MR35S | | |
| 350 | 120 | 22 × 25 | 0.15 | 0.75 | EKMQ351VSN121MP25S | 330 | 35 × 30 | 0.20 | 1.42 | EKMQ421VSN331MA30S | |
| | 150 | 22 × 30 | 0.15 | 0.82 | EKMQ351VSN151MP30S | 390 | 30 × 40 | 0.20 | 1.61 | EKMQ421VSN391MR40S | |
| | 180 | 22 × 30 | 0.15 | 0.90 | EKMQ351VSN181MP30S | 390 | 35 × 35 | 0.20 | 1.61 | EKMQ421VSN391MA35S | |
| | 180 | 25.4 × 25 | 0.15 | 0.90 | EKMQ351VSN181MQ25S | 470 | 30 × 45 | 0.20 | 1.86 | EKMQ421VSN471MR45S | |
| | 220 | 22 × 35 | 0.15 | 1.00 | EKMQ351VSN221MP35S | 470 | 35 × 40 | 0.20 | 1.86 | EKMQ421VSN471MA40S | |
| | 220 | 25.4 × 30 | 0.15 | 1.00 | EKMQ351VSN221MQ30S | 560 | 35 × 45 | 0.20 | 2.10 | EKMQ421VSN561MA45S | |
| | 270 | 22 × 40 | 0.15 | 1.10 | EKMQ351VSN271MP40S | 680 | 35 × 50 | 0.20 | 2.20 | EKMQ421VSN681MA50S | |
| | 270 | 25.4 × 30 | 0.15 | 1.10 | EKMQ351VSN271MQ30S | 68 | 22 × 25 | 0.20 | 0.50 | EKMQ451VSN680MP25S | |
| | 270 | 30 × 25 | 0.15 | 1.10 | EKMQ351VSN271MR25S | 82 | 22 × 30 | 0.20 | 0.56 | EKMQ451VSN820MP30S | |
| | 330 | 22 × 45 | 0.15 | 1.20 | EKMQ351VSN331MP45S | 100 | 22 × 30 | 0.20 | 0.64 | EKMQ451VSN101MP30S | |
| | 330 | 25.4 × 40 | 0.15 | 1.20 | EKMQ351VSN331MQ40S | 100 | 25.4 × 25 | 0.20 | 0.64 | EKMQ451VSN101MQ25S | |
| | 330 | 30 × 30 | 0.15 | 1.20 | EKMQ351VSN331MR30S | 120 | 22 × 35 | 0.20 | 0.72 | EKMQ451VSN121MP35S | |
| | 390 | 25.4 × 45 | 0.15 | 1.30 | EKMQ351VSN391MQ45S | 120 | 25.4 × 30 | 0.20 | 0.72 | EKMQ451VSN121MQ30S | |
| | 390 | 30 × 35 | 0.15 | 1.30 | EKMQ351VSN391MR35S | 150 | 22 × 40 | 0.20 | 0.79 | EKMQ451VSN151MP40S | |
| | 470 | 25.4 × 50 | 0.15 | 1.40 | EKMQ351VSN471MQ50S | 150 | 25.4 × 30 | 0.20 | 0.79 | EKMQ451VSN151MQ30S | |
| | 470 | 30 × 35 | 0.15 | 1.40 | EKMQ351VSN471MR35S | 150 | 30 × 25 | 0.20 | 0.79 | EKMQ451VSN151MR25S | |
| | 470 | 35 × 30 | 0.15 | 1.40 | EKMQ351VSN471MA30S | 180 | 22 × 45 | 0.20 | 0.87 | EKMQ451VSN181MP45S | |
| | 560 | 30 × 45 | 0.15 | 1.50 | EKMQ351VSN561MR45S | 180 | 25.4 × 40 | 0.20 | 0.87 | EKMQ451VSN181MQ40S | |
| | 560 | 35 × 35 | 0.15 | 1.50 | EKMQ351VSN561MA35S | 180 | 30 × 30 | 0.20 | 0.87 | EKMQ451VSN181MR30S | |
| | 680 | 30 × 50 | 0.15 | 1.70 | EKMQ351VSN681MR50S | 220 | 25.4 × 45 | 0.20 | 1.00 | EKMQ451VSN221MQ45S | |
| 680 | 35 × 40 | 0.15 | 1.70 | EKMQ351VSN681MA40S | 220 | 30 × 30 | 0.20 | 1.00 | EKMQ451VSN221MR30S | | |
| 820 | 35 × 45 | 0.15 | 1.90 | EKMQ351VSN821MA45S | 220 | 35 × 25 | 0.20 | 1.00 | EKMQ451VSN221MA25S | | |
| 400 | 100 | 22 × 25 | 0.15 | 0.70 | EKMQ401VSN101MP25S | 270 | 25.4 × 50 | 0.20 | 1.19 | EKMQ451VSN271MQ50S | |
| | 120 | 22 × 30 | 0.15 | 0.75 | EKMQ401VSN121MP30S | 270 | 30 × 40 | 0.20 | 1.19 | EKMQ451VSN271MR40S | |
| | 150 | 22 × 30 | 0.15 | 0.88 | EKMQ401VSN151MP30S | 270 | 35 × 30 | 0.20 | 1.19 | EKMQ451VSN271MA30S | |
| | 150 | 25.4 × 25 | 0.15 | 0.88 | EKMQ401VSN151MQ25S | 330 | 30 × 45 | 0.20 | 1.38 | EKMQ451VSN331MQ45S | |
| | 180 | 22 × 35 | 0.15 | 0.95 | EKMQ401VSN181MP35S | 330 | 35 × 35 | 0.20 | 1.38 | EKMQ451VSN331MA35S | |
| | 180 | 25.4 × 30 | 0.15 | 0.95 | EKMQ401VSN181MQ30S | 390 | 30 × 50 | 0.20 | 1.55 | EKMQ451VSN391MR50S | |
| | 220 | 22 × 45 | 0.15 | 1.10 | EKMQ401VSN221MP45S | 390 | 35 × 40 | 0.20 | 1.55 | EKMQ451VSN391MA40S | |
| | 220 | 25.4 × 35 | 0.15 | 1.10 | EKMQ401VSN221MQ35S | 470 | 35 × 45 | 0.20 | 1.74 | EKMQ451VSN471MA45S | |
| | 220 | 30 × 25 | 0.15 | 1.10 | EKMQ401VSN221MR25S | 560 | 35 × 50 | 0.20 | 1.90 | EKMQ451VSN561MA50S | |
| | 270 | 22 × 50 | 0.15 | 1.22 | EKMQ401VSN271MP50S | | | | | | |



KMQ Series

◆ RATED RIPPLE CURRENT MULTIPLIERS

● Frequency Multipliers

| Frequency(Hz) | 50 | 120 | 300 | 1k | 10k | 50k |
|---------------------------|------|------|------|------|------|------|
| 35, 50V _{dc} | 0.95 | 1.00 | 1.03 | 1.05 | 1.08 | 1.08 |
| 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 |

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.