

# KMH Series

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

KMM P6-35

Downsized  
Longer life

KMH



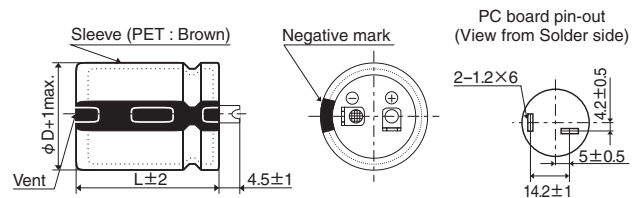
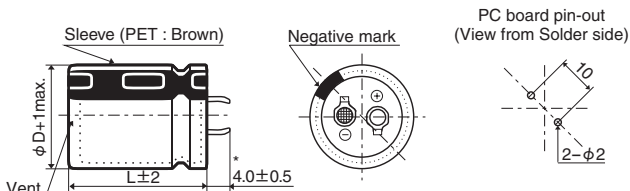
## SPECIFICATIONS

| Items  | Characteristics   |                                      |      |      |      |      |      |      |      |      |                  |
|--|---|--------------------------------------|------|------|------|------|------|------|------|------|------------------|
| Category   | -40 to +105°C   |                                      |      |      |      |      |      |      |      |      |                  |
| Temperature Range                                      |   |                                      |      |      |      |      |      |      |      |      |                  |
| Rated Voltage Range                                    | 6.3 to 100V <sub>dc</sub>   |                                      |      |      |      |      |      |      |      |      |                  |
| Capacitance Tolerance                                  | ±20% (M) (at 20°C, 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°C after 5 minutes)  |                                      |      |      |      |      |      |      |      |      |                  |
| Dissipation Factor (tan δ)                             | Rated voltage (V <sub>dc</sub> )  | 6.3V                                 | 10V  | 16V  | 25V  | 35V  | 50V  | 63V  | 80V  | 100V |                  |
|  | tan δ (Max.)  | 0.60                                 | 0.50 | 0.40 | 0.30 | 0.25 | 0.20 | 0.15 | 0.15 | 0.15 | (at 20°C, 120Hz) |
| Low Temperature Characteristics (Max. Impedance Ratio) | Rated voltage (V <sub>dc</sub> )  | 6.3V                                 | 10V  | 16V  | 25V  | 35V  | 50V  | 63V  | 80V  | 100V |                  |
|  | Z(-25°C)/Z(+20°C)   | 4                                    | 4    | 4    | 3    | 3    | 2    | 2    | 2    | 2    |                  |
|  | Z(-45°C)/Z(+20°C)   | 15                                   | 15   | 15   | 10   | 8    | 6    | 6    | 5    | 5    | (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 (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  | ≤ ±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

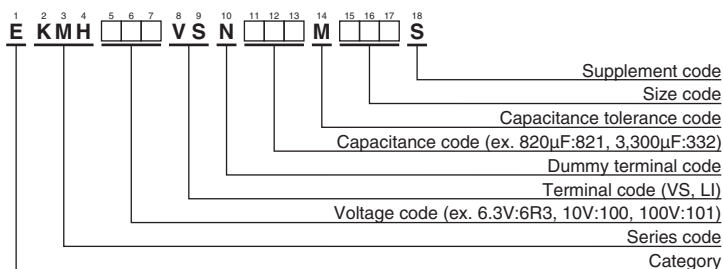
Terminal Code : LI (φ35)



\*φD=35mm : 3.5±0.5mm

The standard design has no plastic disc.

## PART NUMBERING SYSTEM



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

◆STANDARD RATINGS

| WV (V <sub>dc</sub> ) | Cap (μF) | Case size φD×L(mm) | tan δ | Rated ripple current (Arms/105°C, 120Hz) | Part No.           | WV (V <sub>dc</sub> ) | Cap (μF)  | Case size φD×L(mm) | tan δ     | Rated ripple current (Arms/105°C, 120Hz) | Part No.           |                    |
|-----------------------|----------|--------------------|-------|--|--------------------|-----------------------|-----------|--------------------|-----------|--|--------------------|--------------------|
| 6.3                   | 12,000   | 22 × 25            | 0.60  | 1.54                                     | EKMH6R3VSN123MP25S | 16                    | 27,000    | 35 × 30            | 0.40      | 3.45                                     | EKMH160VSN273MA30S |                    |
|                       | 15,000   | 22 × 25            | 0.60  | 1.72                                     | EKMH6R3VSN153MP25S |                       | 33,000    | 30 × 45            | 0.40      | 4.30                                     | EKMH160VSN333MR45S |                    |
|                       | 18,000   | 22 × 30            | 0.60  | 1.95                                     | EKMH6R3VSN183MP30S |                       | 33,000    | 35 × 35            | 0.40      | 4.26                                     | EKMH160VSN333MA35S |                    |
|                       | 18,000   | 25.4 × 25          | 0.60  | 1.96                                     | EKMH6R3VSN183MQ25S |                       | 39,000    | 30 × 50            | 0.40      | 4.81                                     | EKMH160VSN393MR50S |                    |
|                       | 22,000   | 22 × 35            | 0.60  | 2.23                                     | EKMH6R3VSN223MP35S |                       | 39,000    | 35 × 40            | 0.40      | 4.79                                     | EKMH160VSN393MA40S |                    |
|                       | 22,000   | 25.4 × 30          | 0.60  | 2.25                                     | EKMH6R3VSN223MQ30S |                       | 47,000    | 35 × 45            | 0.40      | 5.43                                     | EKMH160VSN473MA45S |                    |
|                       | 22,000   | 30 × 25            | 0.60  | 2.28                                     | EKMH6R3VSN223MR25S |                       | 25        | 4,700              | 22 × 25   | 0.30                                     | 1.50               | EKMH250VSN472MP25S |
|                       | 27,000   | 22 × 40            | 0.60  | 2.54                                     | EKMH6R3VSN273MP40S |                       |           | 5,600              | 22 × 25   | 0.30                                     | 1.63               | EKMH250VSN562MP25S |
|                       | 27,000   | 25.4 × 35          | 0.60  | 2.57                                     | EKMH6R3VSN273MQ35S |                       |           | 6,800              | 22 × 30   | 0.30                                     | 1.86               | EKMH250VSN682MP30S |
|                       | 27,000   | 30 × 25            | 0.60  | 2.52                                     | EKMH6R3VSN273MR25S |                       |           | 6,800              | 25.4 × 25 | 0.30                                     | 1.87               | EKMH250VSN682MQ25S |
|                       | 33,000   | 22 × 45            | 0.60  | 2.88                                     | EKMH6R3VSN333MP45S | 8,200                 |           | 22 × 35            | 0.30      | 2.11                                     | EKMH250VSN822MP35S |                    |
|                       | 33,000   | 25.4 × 40          | 0.60  | 2.93                                     | EKMH6R3VSN333MQ40S | 8,200                 |           | 25.4 × 30          | 0.30      | 2.12                                     | EKMH250VSN822MQ30S |                    |
|                       | 33,000   | 30 × 30            | 0.60  | 2.89                                     | EKMH6R3VSN333MR30S | 8,200                 |           | 30 × 25            | 0.30      | 2.15                                     | EKMH250VSN822MR25S |                    |
|                       | 33,000   | 35 × 25            | 0.60  | 2.93                                     | EKMH6R3VSN333MA25S | 10,000                |           | 22 × 40            | 0.30      | 2.39                                     | EKMH250VSN103MP40S |                    |
|                       | 39,000   | 25.4 × 40          | 0.60  | 3.18                                     | EKMH6R3VSN393MQ40S | 10,000                |           | 25.4 × 35          | 0.30      | 2.42                                     | EKMH250VSN103MR35S |                    |
|                       | 39,000   | 30 × 35            | 0.60  | 3.26                                     | EKMH6R3VSN393MR35S | 10,000                |           | 30 × 25            | 0.30      | 2.37                                     | EKMH250VSN103MR25S |                    |
|                       | 39,000   | 35 × 30            | 0.60  | 3.40                                     | EKMH6R3VSN393MA30S | 12,000                |           | 22 × 45            | 0.30      | 2.69                                     | EKMH250VSN123MP45S |                    |
|                       | 47,000   | 25.4 × 50          | 0.60  | 3.69                                     | EKMH6R3VSN473MQ50S | 12,000                |           | 25.4 × 40          | 0.30      | 2.74                                     | EKMH250VSN123MQ40S |                    |
|                       | 47,000   | 30 × 40            | 0.60  | 3.69                                     | EKMH6R3VSN473MR40S | 12,000                |           | 30 × 30            | 0.30      | 2.70                                     | EKMH250VSN123MR30S |                    |
|                       | 47,000   | 35 × 30            | 0.60  | 3.73                                     | EKMH6R3VSN473MA30S | 12,000                |           | 35 × 25            | 0.30      | 2.74                                     | EKMH250VSN123MA25S |                    |
| 56,000                | 30 × 45  | 0.60               | 4.16  | EKMH6R3VSN563MR45S                       | 15,000             | 25.4 × 45             |           | 0.30               | 3.15      | EKMH250VSN153MQ45S                       |                    |                    |
| 56,000                | 35 × 35  | 0.60               | 4.12  | EKMH6R3VSN563MA35S                       | 15,000             | 30 × 35               |           | 0.30               | 3.13      | EKMH250VSN153MR35S                       |                    |                    |
| 68,000                | 30 × 50  | 0.60               | 4.71  | EKMH6R3VSN683MR50S                       | 15,000             | 35 × 30               |           | 0.30               | 3.27      | EKMH250VSN153MA30S                       |                    |                    |
| 68,000                | 35 × 40  | 0.60               | 4.69  | EKMH6R3VSN683MA40S                       | 18,000             | 25.4 × 50             |           | 0.30               | 3.54      | EKMH250VSN183MQ50S                       |                    |                    |
| 82,000                | 35 × 45  | 0.60               | 5.32  | EKMH6R3VSN823MA45S                       | 18,000             | 30 × 40               |           | 0.30               | 3.54      | EKMH250VSN183MR40S                       |                    |                    |
| 10                    | 10,000   | 22 × 25            | 0.50  | 1.55                                     | EKMH100VSN103MP25S | 18,000                |           | 35 × 30            | 0.30      | 3.58                                     | EKMH250VSN183MA30S |                    |
|                       | 12,000   | 22 × 30            | 0.50  | 1.77                                     | EKMH100VSN123MP30S | 22,000                | 30 × 45   | 0.30               | 4.04      | EKMH250VSN223MR45S                       |                    |                    |
|                       | 15,000   | 22 × 30            | 0.50  | 1.97                                     | EKMH100VSN153MP30S | 22,000                | 35 × 35   | 0.30               | 3.64      | EKMH250VSN223MA35S                       |                    |                    |
|                       | 15,000   | 25.4 × 25          | 0.50  | 1.96                                     | EKMH100VSN153MQ25S | 27,000                | 35 × 45   | 0.30               | 4.73      | EKMH250VSN273MA45S                       |                    |                    |
|                       | 18,000   | 22 × 35            | 0.50  | 2.21                                     | EKMH100VSN183MP35S | 33,000                | 35 × 50   | 0.30               | 5.39      | EKMH250VSN333MA50S                       |                    |                    |
|                       | 18,000   | 25.4 × 30          | 0.50  | 2.23                                     | EKMH100VSN183MQ30S | 35                    | 3,300     | 22 × 25            | 0.25      | 1.40                                     | EKMH350VSN332MP25S |                    |
|                       | 22,000   | 22 × 40            | 0.50  | 2.51                                     | EKMH100VSN223MP40S |                       | 3,900     | 22 × 30            | 0.25      | 1.57                                     | EKMH350VSN392MP30S |                    |
|                       | 22,000   | 25.4 × 35          | 0.50  | 2.54                                     | EKMH100VSN223MQ35S |                       | 4,700     | 22 × 30            | 0.25      | 1.72                                     | EKMH350VSN472MP30S |                    |
|                       | 22,000   | 30 × 25            | 0.50  | 2.40                                     | EKMH100VSN223MR25S |                       | 4,700     | 25.4 × 25          | 0.25      | 1.80                                     | EKMH350VSN472MQ25S |                    |
|                       | 27,000   | 22 × 50            | 0.50  | 2.93                                     | EKMH100VSN273MP50S |                       | 5,600     | 22 × 35            | 0.25      | 1.95                                     | EKMH350VSN562MP35S |                    |
|                       | 27,000   | 25.4 × 40          | 0.50  | 2.90                                     | EKMH100VSN273MQ40S |                       | 5,600     | 25.4 × 30          | 0.25      | 1.96                                     | EKMH350VSN562MQ30S |                    |
|                       | 27,000   | 30 × 30            | 0.50  | 2.87                                     | EKMH100VSN273MR30S |                       | 5,600     | 30 × 25            | 0.25      | 1.99                                     | EKMH350VSN562MR25S |                    |
|                       | 27,000   | 35 × 25            | 0.50  | 2.73                                     | EKMH100VSN273MA25S |                       | 6,800     | 22 × 40            | 0.25      | 2.20                                     | EKMH350VSN682MP40S |                    |
|                       | 33,000   | 25.4 × 45          | 0.50  | 3.30                                     | EKMH100VSN333MQ45S |                       | 6,800     | 25.4 × 35          | 0.25      | 2.23                                     | EKMH350VSN682MR35S |                    |
|                       | 33,000   | 30 × 35            | 0.50  | 3.28                                     | EKMH100VSN333MR35S |                       | 6,800     | 30 × 25            | 0.25      | 2.19                                     | EKMH350VSN682MR25S |                    |
|                       | 33,000   | 35 × 30            | 0.50  | 3.16                                     | EKMH100VSN333MA30S |                       | 8,200     | 22 × 50            | 0.25      | 2.55                                     | EKMH350VSN822MP50S |                    |
|                       | 39,000   | 25.4 × 50          | 0.50  | 3.68                                     | EKMH100VSN393MQ50S |                       | 8,200     | 25.4 × 40          | 0.25      | 2.53                                     | EKMH350VSN822MQ40S |                    |
|                       | 39,000   | 30 × 40            | 0.50  | 3.69                                     | EKMH100VSN393MR40S |                       | 8,200     | 30 × 30            | 0.25      | 2.75                                     | EKMH350VSN822MR30S |                    |
|                       | 39,000   | 35 × 30            | 0.50  | 3.43                                     | EKMH100VSN393MA30S |                       | 8,200     | 35 × 25            | 0.25      | 2.75                                     | EKMH350VSN822MA25S |                    |
|                       | 47,000   | 30 × 45            | 0.50  | 4.17                                     | EKMH100VSN473MR45S |                       | 10,000    | 25.4 × 45          | 0.25      | 2.87                                     | EKMH350VSN103MQ45S |                    |
| 47,000                | 35 × 35  | 0.50               | 3.76  | EKMH100VSN473MA35S                       | 10,000             |                       | 30 × 35   | 0.25               | 2.90      | EKMH350VSN103MR35S                       |                    |                    |
| 56,000                | 30 × 50  | 0.50               | 4.68  | EKMH100VSN563MR50S                       | 10,000             |                       | 35 × 30   | 0.25               | 2.91      | EKMH350VSN103MA30S                       |                    |                    |
| 56,000                | 35 × 40  | 0.50               | 4.67  | EKMH100VSN563MA40S                       | 12,000             |                       | 25.4 × 50 | 0.25               | 3.24      | EKMH350VSN123MQ50S                       |                    |                    |
| 68,000                | 35 × 50  | 0.50               | 5.46  | EKMH100VSN683MA50S                       | 12,000             |                       | 30 × 40   | 0.25               | 3.23      | EKMH350VSN123MR40S                       |                    |                    |
| 16                    | 6,800    | 22 × 25            | 0.40  | 1.57                                     | EKMH160VSN682MP25S |                       | 12,000    | 35 × 30            | 0.25      | 2.99                                     | EKMH350VSN123MA30S |                    |
|                       | 10,000   | 22 × 30            | 0.40  | 1.97                                     | EKMH160VSN103MP30S | 15,000                | 30 × 45   | 0.25               | 3.72      | EKMH350VSN153MR45S                       |                    |                    |
|                       | 10,000   | 25.4 × 25          | 0.40  | 1.97                                     | EKMH160VSN103MQ25S | 15,000                | 35 × 35   | 0.25               | 3.67      | EKMH350VSN153MA35S                       |                    |                    |
|                       | 12,000   | 22 × 35            | 0.40  | 2.22                                     | EKMH160VSN123MP35S | 18,000                | 35 × 40   | 0.25               | 4.37      | EKMH350VSN183MA40S                       |                    |                    |
|                       | 12,000   | 25.4 × 30          | 0.40  | 2.24                                     | EKMH160VSN123MQ30S | 22,000                | 35 × 50   | 0.25               | 4.92      | EKMH350VSN223MA50S                       |                    |                    |
|                       | 12,000   | 30 × 25            | 0.40  | 2.45                                     | EKMH160VSN123MR25S | 50                    | 1,800     | 22 × 25            | 0.20      | 1.33                                     | EKMH500VSN182MP25S |                    |
|                       | 15,000   | 22 × 40            | 0.40  | 2.55                                     | EKMH160VSN153MP40S |                       | 2,700     | 22 × 30            | 0.20      | 1.69                                     | EKMH500VSN272MP30S |                    |
|                       | 15,000   | 25.4 × 35          | 0.40  | 2.58                                     | EKMH160VSN153MQ35S |                       | 2,700     | 25.4 × 25          | 0.20      | 1.70                                     | EKMH500VSN272MQ25S |                    |
|                       | 15,000   | 30 × 25            | 0.40  | 2.52                                     | EKMH160VSN153MR25S |                       | 3,300     | 22 × 35            | 0.20      | 1.93                                     | EKMH500VSN332MP35S |                    |
|                       | 18,000   | 22 × 45            | 0.40  | 2.87                                     | EKMH160VSN183MP45S |                       | 3,300     | 25.4 × 30          | 0.20      | 1.85                                     | EKMH500VSN332MQ30S |                    |
|                       | 18,000   | 25.4 × 40          | 0.40  | 2.92                                     | EKMH160VSN183MQ40S |                       | 3,900     | 22 × 40            | 0.20      | 2.16                                     | EKMH500VSN392MP40S |                    |
|                       | 18,000   | 30 × 30            | 0.40  | 2.88                                     | EKMH160VSN183MR30S |                       | 3,900     | 25.4 × 35          | 0.20      | 2.18                                     | EKMH500VSN392MQ35S |                    |
|                       | 18,000   | 35 × 25            | 0.40  | 2.92                                     | EKMH160VSN183MA25S |                       | 3,900     | 30 × 25            | 0.20      | 1.95                                     | EKMH500VSN392MR25S |                    |
|                       | 22,000   | 25.4 × 45          | 0.40  | 3.32                                     | EKMH160VSN223MQ45S |                       | 4,700     | 22 × 45            | 0.20      | 2.43                                     | EKMH500VSN472MP45S |                    |
|                       | 22,000   | 30 × 35            | 0.40  | 3.29                                     | EKMH160VSN223MR35S |                       | 4,700     | 25.4 × 35          | 0.20      | 2.39                                     | EKMH500VSN472MQ35S |                    |
|                       | 22,000   | 35 × 25            | 0.40  | 3.23                                     | EKMH160VSN223MA25S |                       | 4,700     | 30 × 30            | 0.20      | 2.25                                     | EKMH500VSN472MR30S |                    |
|                       | 27,000   | 25.4 × 50          | 0.40  | 3.78                                     | EKMH160VSN273MQ50S |                       | 4,700     | 35 × 25            | 0.20      | 2.48                                     | EKMH500VSN472MA25S |                    |
|                       | 27,000   | 30 × 40            | 0.40  | 3.77                                     | EKMH160VSN273MR40S |                       | 5,600     | 22 × 50            | 0.20      | 2.75                                     | EKMH500VSN562MP50S |                    |

◆STANDARD RATINGS

| WV (V <sub>dc</sub> ) | Cap (μF) | Case size φD×L(mm) | tan δ   | Rated ripple current (Arms/105°C, 120Hz) | Part No.           | WV (V <sub>dc</sub> ) | Cap (μF) | Case size φD×L(mm) | tan δ     | Rated ripple current (Arms/105°C, 120Hz) | Part No.           |                    |
|-----------------------|----------|--------------------|---------|--|--------------------|-----------------------|----------|--------------------|-----------|--|--------------------|--------------------|
| 50                    | 5,600    | 25.4 × 40          | 0.20    | 2.70                                     | EKMH500VSN562MQ40S | 80                    | 1,800    | 25.4 × 30          | 0.15      | 1.76                                     | EKMH800VSN182MQ30S |                    |
|                       | 5,600    | 30 × 35            | 0.20    | 2.76                                     | EKMH500VSN562MR35S |                       | 1,800    | 30 × 25            | 0.15      | 1.65                                     | EKMH800VSN182MR25S |                    |
|                       | 5,600    | 35 × 25            | 0.20    | 2.70                                     | EKMH500VSN562MA25S |                       | 2,200    | 22 × 45            | 0.15      | 2.04                                     | EKMH800VSN222MP45S |                    |
|                       | 6,800    | 25.4 × 50          | 0.20    | 3.30                                     | EKMH500VSN682MQ50S |                       | 2,200    | 25.4 × 35          | 0.15      | 2.01                                     | EKMH800VSN222MQ35S |                    |
|                       | 6,800    | 30 × 40            | 0.20    | 3.30                                     | EKMH500VSN682MR40S |                       | 2,200    | 30 × 30            | 0.15      | 2.05                                     | EKMH800VSN222MR30S |                    |
|                       | 6,800    | 35 × 30            | 0.20    | 3.25                                     | EKMH500VSN682MA30S |                       | 2,200    | 35 × 25            | 0.15      | 2.07                                     | EKMH800VSN222MA25S |                    |
|                       | 8,200    | 30 × 45            | 0.20    | 3.60                                     | EKMH500VSN822MR45S |                       | 2,700    | 25.4 × 45          | 0.15      | 2.36                                     | EKMH800VSN272MQ45S |                    |
|                       | 8,200    | 35 × 35            | 0.20    | 3.55                                     | EKMH500VSN822MA35S |                       | 2,700    | 30 × 35            | 0.15      | 2.35                                     | EKMH800VSN272MR35S |                    |
|                       | 10,000   | 30 × 50            | 0.20    | 4.04                                     | EKMH500VSN103MR50S |                       | 2,700    | 35 × 25            | 0.15      | 2.29                                     | EKMH800VSN272MA25S |                    |
| 63                    | 1,200    | 22 × 25            | 0.15    | 1.19                                     | EKMH630VSN122MP25S | 80                    | 3,300    | 25.4 × 50          | 0.15      | 2.68                                     | EKMH800VSN332MQ50S |                    |
|                       | 1,500    | 22 × 25            | 0.15    | 1.33                                     | EKMH630VSN152MP25S |                       | 3,300    | 30 × 40            | 0.15      | 2.68                                     | EKMH800VSN332MP40S |                    |
|                       | 1,800    | 22 × 30            | 0.15    | 1.51                                     | EKMH630VSN182MP30S |                       | 3,300    | 35 × 30            | 0.15      | 2.45                                     | EKMH800VSN332MA30S |                    |
|                       | 1,800    | 25.4 × 25          | 0.15    | 1.52                                     | EKMH630VSN182MQ25S |                       | 3,900    | 30 × 45            | 0.15      | 3.00                                     | EKMH800VSN392MR45S |                    |
|                       | 2,200    | 22 × 35            | 0.15    | 1.73                                     | EKMH630VSN222MP35S |                       | 3,900    | 35 × 35            | 0.15      | 2.98                                     | EKMH800VSN392MA35S |                    |
|                       | 2,200    | 25.4 × 30          | 0.15    | 1.74                                     | EKMH630VSN222MQ30S |                       | 4,700    | 30 × 50            | 0.15      | 3.39                                     | EKMH800VSN472MP50S |                    |
|                       | 2,700    | 22 × 40            | 0.15    | 1.97                                     | EKMH630VSN272MP40S |                       | 4,700    | 35 × 40            | 0.15      | 3.38                                     | EKMH800VSN472MA40S |                    |
|                       | 2,700    | 25.4 × 35          | 0.15    | 1.99                                     | EKMH630VSN272MQ35S |                       | 5,600    | 35 × 45            | 0.15      | 3.80                                     | EKMH800VSN562MA45S |                    |
|                       | 2,700    | 30 × 25            | 0.15    | 1.76                                     | EKMH630VSN272MR25S |                       | 6,800    | 35 × 50            | 0.15      | 3.90                                     | EKMH800VSN682MA50S |                    |
|                       | 3,300    | 22 × 50            | 0.15    | 2.29                                     | EKMH630VSN332MP50S |                       | 100      | 560                | 22 × 25   | 0.15                                     | 1.05               | EKMH101VSN561MP25S |
|                       | 3,300    | 25.4 × 40          | 0.15    | 2.27                                     | EKMH630VSN332MQ40S |                       |          | 820                | 22 × 30   | 0.15                                     | 1.32               | EKMH101VSN821MP30S |
|                       | 3,300    | 30 × 30            | 0.15    | 2.24                                     | EKMH630VSN332MR30S |                       |          | 820                | 25.4 × 25 | 0.15                                     | 1.33               | EKMH101VSN821MQ25S |
|                       | 3,300    | 35 × 25            | 0.15    | 2.06                                     | EKMH630VSN332MA25S |                       |          | 1,000              | 22 × 35   | 0.15                                     | 1.50               | EKMH101VSN102MP35S |
|                       | 3,900    | 25.4 × 45          | 0.15    | 2.54                                     | EKMH630VSN392MQ45S |                       |          | 1,000              | 25.4 × 30 | 0.15                                     | 1.51               | EKMH101VSN102MQ30S |
|                       | 3,900    | 30 × 35            | 0.15    | 2.55                                     | EKMH630VSN392MR35S |                       |          | 1,200              | 22 × 40   | 0.15                                     | 1.69               | EKMH101VSN122MP40S |
|                       | 3,900    | 35 × 25            | 0.15    | 2.24                                     | EKMH630VSN392MA25S |                       |          | 1,200              | 25.4 × 35 | 0.15                                     | 1.71               | EKMH101VSN122MQ35S |
|                       | 4,700    | 25.4 × 50          | 0.15    | 2.86                                     | EKMH630VSN472MQ50S |                       |          | 1,200              | 30 × 25   | 0.15                                     | 1.68               | EKMH101VSN122MR25S |
|                       | 4,700    | 30 × 40            | 0.15    | 2.86                                     | EKMH630VSN472MR40S |                       |          | 1,500              | 22 × 45   | 0.15                                     | 1.94               | EKMH101VSN152MP45S |
|                       | 4,700    | 35 × 30            | 0.15    | 2.79                                     | EKMH630VSN472MA30S | 1,500                 |          | 25.4 × 40          | 0.15      | 1.98                                     | EKMH101VSN152MQ40S |                    |
|                       | 5,600    | 30 × 45            | 0.15    | 3.22                                     | EKMH630VSN562MR45S | 1,500                 |          | 30 × 30            | 0.15      | 1.95                                     | EKMH101VSN152MR30S |                    |
|                       | 5,600    | 35 × 35            | 0.15    | 3.19                                     | EKMH630VSN562MA35S | 1,500                 |          | 35 × 25            | 0.15      | 1.98                                     | EKMH101VSN152MA25S |                    |
|                       | 6,800    | 30 × 50            | 0.15    | 3.65                                     | EKMH630VSN682MR50S | 1,800                 |          | 25.4 × 45          | 0.15      | 2.23                                     | EKMH101VSN182MQ45S |                    |
|                       | 6,800    | 35 × 40            | 0.15    | 3.64                                     | EKMH630VSN682MA40S | 1,800                 |          | 30 × 35            | 0.15      | 2.50                                     | EKMH101VSN182MR35S |                    |
|                       | 8,200    | 35 × 45            | 0.15    | 3.90                                     | EKMH630VSN822MA45S | 1,800                 |          | 35 × 25            | 0.15      | 2.17                                     | EKMH101VSN182MA25S |                    |
|                       | 10,000   | 35 × 50            | 0.15    | 4.40                                     | EKMH630VSN103MA50S | 2,200                 |          | 25.4 × 50          | 0.15      | 2.53                                     | EKMH101VSN222MQ50S |                    |
|                       | 80       | 820                | 22 × 25 | 0.15                                     | 1.11               | EKMH800VSN821MP25S    |          | 2,200              | 30 × 40   | 0.15                                     | 2.70               | EKMH101VSN222MR40S |
|                       |          | 1,000              | 22 × 25 | 0.15                                     | 1.22               | EKMH800VSN102MP25S    |          | 2,200              | 35 × 30   | 0.15                                     | 2.50               | EKMH101VSN222MA30S |
| 1,200                 |          | 22 × 30            | 0.15    | 1.38                                     | EKMH800VSN122MP30S | 2,700                 | 30 × 45  | 0.15               | 2.88      | EKMH101VSN272MR45S                       |                    |                    |
| 1,200                 |          | 25.4 × 25          | 0.15    | 1.39                                     | EKMH800VSN122MQ25S | 2,700                 | 35 × 35  | 0.15               | 2.86      | EKMH101VSN272MA35S                       |                    |                    |
| 1,500                 |          | 22 × 35            | 0.15    | 1.59                                     | EKMH800VSN152MP35S | 3,300                 | 30 × 50  | 0.15               | 3.28      | EKMH101VSN332MR50S                       |                    |                    |
| 1,500                 |          | 25.4 × 30          | 0.15    | 1.61                                     | EKMH800VSN152MQ30S | 3,300                 | 35 × 40  | 0.15               | 3.27      | EKMH101VSN332MA40S                       |                    |                    |
| 1,800                 |          | 22 × 40            | 0.15    | 1.80                                     | EKMH800VSN182MP40S | 3,900                 | 35 × 45  | 0.15               | 3.67      | EKMH101VSN392MA45S                       |                    |                    |
|                       |          |                    |         |  |                    | 4,700                 | 35 × 50  | 0.15               | 3.80      | EKMH101VSN472MA50S                       |                    |                    |

\*For the rated voltage ≥ 160V<sub>dc</sub>, please use KMR and KMQ series.

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

| Frequency(Hz)            | 50   | 120  | 300  | 1k   | 10k  | 50k  |
|--------------------------|------|------|------|------|------|------|
| 6.3 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.