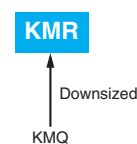


# KMR Series

- Downsized 5mm in height from current snap-ins KMQ series
- Max. 50% up ripple current than same case size of KMQ series
- Endurance with ripple current : 2,000 hours at 105°C
- Rated voltage range : 160 to 450V<sub>dc</sub>, Capacitance range : 100 to 3,300μF
- For inverter control, switching power supplies
- Non solvent resistant type
- RoHS2 Compliant

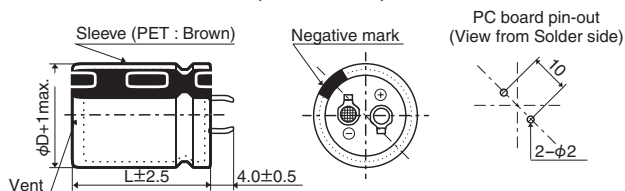


## SPECIFICATIONS

| Items                                                        | Characteristics                                                                                                                                                                                                                                                                       |                                       |             |            |                 |
|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------|------------|-----------------|
| Category                                                     | -25 to +105℃                                                                                                                                                                                                                                                                          |                                       |             |            |                 |
| Temperature Range                                            |                                                                                                                                                                                                                                                                                       |                                       |             |            |                 |
| Rated Voltage Range                                          | 160 to 450V <sub>dc</sub>                                                                                                                                                                                                                                                             |                                       |             |            |                 |
| Capacitance Tolerance                                        | ± 20% (M) (at 20℃, 120Hz)                                                                                                                                                                                                                                                             |                                       |             |            |                 |
| Leakage Current                                              | I ≤ 3√CV<br>Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20℃ after 5 minutes)                                                                                                                                                        |                                       |             |            |                 |
| Dissipation Factor<br>(tan δ )                               | Rated voltage (V <sub>dc</sub> )                                                                                                                                                                                                                                                      | 160 to 250V                           | 315 to 400V | 420 & 450V | (at 20℃, 120Hz) |
|                                                              | tan δ (Max.)                                                                                                                                                                                                                                                                          | 0.15                                  | 0.15        | 0.20       |                 |
| Low Temperature<br>Characteristics<br>(Max. Impedance Ratio) | Rated voltage (V <sub>dc</sub> )                                                                                                                                                                                                                                                      | 160 to 250V                           | 315 to 400V | 420 & 450V | (at 120Hz)      |
|                                                              | Z(-25℃)/Z(+20℃)                                                                                                                                                                                                                                                                       | 4                                     | 8           | 8          |                 |
| Endurance                                                    | The following specifications shall be satisfied when the capacitors are restored to 20℃ 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℃.                                         |                                       |             |            |                 |
|                                                              | 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℃ after exposing them for 1,000 hours at 105℃ 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         |             |            |                 |

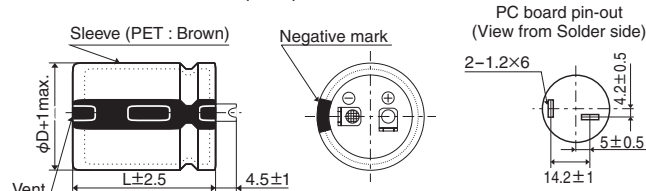
## DIMENSIONS [mm]

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

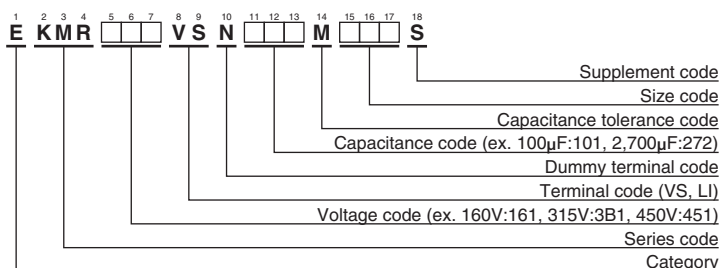


The standard design has no plastic disc.

- Terminal Code : LI (φ35)



## PART NUMBERING SYSTEM



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

◆STANDARD RATINGS

| WV<br>(V <sub>dc</sub> ) | Cap<br>(μF) | Case size<br>φD×L(mm) | Rated ripple current<br>(Arms/105°C,120Hz) | Part No.           | WV<br>(V <sub>dc</sub> ) | Cap<br>(μF) | Case size<br>φD×L(mm) | Rated ripple current<br>(Arms/105°C,120Hz) | Part No.           |
|--------------------------|-------------|-----------------------|--------------------------------------------|--------------------|--------------------------|-------------|-----------------------|--------------------------------------------|--------------------|
| 160                      | 560         | 22 × 25               | 1.58                                       | EKMR161VSN561MP25S | 250                      | 330         | 22 × 25               | 1.21                                       | EKMR251VSN331MP25S |
|                          | 680         | 22 × 30               | 1.83                                       | EKMR161VSN681MP30S |                          | 390         | 22 × 30               | 1.38                                       | EKMR251VSN391MP30S |
|                          | 820         | 22 × 35               | 2.06                                       | EKMR161VSN821MP35S |                          | 470         | 22 × 35               | 1.56                                       | EKMR251VSN471MP35S |
|                          | 820         | 25.4 × 25             | 1.89                                       | EKMR161VSN821MQ25S |                          | 560         | 22 × 40               | 1.74                                       | EKMR251VSN561MP40S |
|                          | 1,000       | 22 × 40               | 2.33                                       | EKMR161VSN102MP40S |                          | 560         | 25.4 × 30             | 1.61                                       | EKMR251VSN561MQ30S |
|                          | 1,000       | 25.4 × 30             | 2.15                                       | EKMR161VSN102MQ30S |                          | 560         | 30 × 25               | 1.42                                       | EKMR251VSN561MR25S |
|                          | 1,000       | 30 × 25               | 1.90                                       | EKMR161VSN102MR25S |                          | 680         | 22 × 45               | 1.97                                       | EKMR251VSN681MP45S |
|                          | 1,200       | 22 × 45               | 2.61                                       | EKMR161VSN122MP45S |                          | 680         | 25.4 × 35             | 1.85                                       | EKMR251VSN681MQ35S |
|                          | 1,200       | 22 × 50               | 2.69                                       | EKMR161VSN122MP50S |                          | 820         | 25.4 × 40             | 2.08                                       | EKMR251VSN821MQ40S |
|                          | 1,200       | 25.4 × 35             | 2.45                                       | EKMR161VSN122MQ35S |                          | 820         | 25.4 × 45             | 2.13                                       | EKMR251VSN821MQ45S |
|                          | 1,500       | 25.4 × 40             | 2.82                                       | EKMR161VSN152MQ40S |                          | 820         | 30 × 30               | 1.77                                       | EKMR251VSN122MR30S |
|                          | 1,500       | 25.4 × 45             | 2.88                                       | EKMR161VSN152MQ45S |                          | 820         | 35 × 25               | 1.60                                       | EKMR251VSN821MA25S |
|                          | 1,500       | 30 × 30               | 2.39                                       | EKMR161VSN152MR30S |                          | 1,000       | 25.4 × 50             | 2.40                                       | EKMR251VSN102MQ50S |
|                          | 1,500       | 35 × 25               | 2.17                                       | EKMR161VSN152MA25S |                          | 1,000       | 30 × 35               | 2.03                                       | EKMR251VSN102MR35S |
|                          | 1,800       | 25.4 × 50             | 3.22                                       | EKMR161VSN332MA45S |                          | 1,200       | 30 × 40               | 2.31                                       | EKMR251VSN152MA40S |
|                          | 1,800       | 30 × 35               | 2.73                                       | EKMR161VSN182MR35S |                          | 1,200       | 30 × 45               | 2.38                                       | EKMR251VSN122MR45S |
|                          | 1,800       | 30 × 40               | 2.82                                       | EKMR161VSN182MR40S |                          | 1,200       | 35 × 35               | 2.06                                       | EKMR251VSN122MA35S |
|                          | 1,800       | 35 × 30               | 2.47                                       | EKMR161VSN182MA30S |                          | 1,500       | 30 × 50               | 2.73                                       | EKMR251VSN152MR50S |
|                          | 2,200       | 30 × 45               | 3.23                                       | EKMR161VSN222MR45S |                          | 1,500       | 35 × 40               | 2.41                                       | EKMR251VSN152MA40S |
|                          | 2,200       | 35 × 35               | 2.79                                       | EKMR161VSN222MA35S |                          | 1,800       | 35 × 45               | 2.72                                       | EKMR251VSN182MA45S |
| 180                      | 470         | 22 × 25               | 1.45                                       | EKMR181VSN471MP25S | 315                      | 180         | 22 × 25               | 0.91                                       | EKMR3B1VSN181MP25S |
|                          | 560         | 22 × 30               | 1.66                                       | EKMR181VSN561MP30S |                          | 220         | 22 × 30               | 1.06                                       | EKMR3B1VSN221MP30S |
|                          | 680         | 22 × 35               | 1.87                                       | EKMR181VSN681MP35S |                          | 270         | 22 × 35               | 1.20                                       | EKMR3B1VSN271MP35S |
|                          | 680         | 25.4 × 25             | 1.72                                       | EKMR181VSN681MQ25S |                          | 270         | 25.4 × 25             | 1.15                                       | EKMR3B1VSN271MQ25S |
|                          | 820         | 22 × 40               | 2.11                                       | EKMR181VSN821MP40S |                          | 330         | 22 × 40               | 1.37                                       | EKMR3B1VSN331MP40S |
|                          | 820         | 25.4 × 30             | 1.94                                       | EKMR181VSN821MQ30S |                          | 330         | 25.4 × 30             | 1.30                                       | EKMR3B1VSN331MQ30S |
|                          | 1,000       | 22 × 45               | 2.38                                       | EKMR181VSN102MP45S |                          | 390         | 22 × 45               | 1.52                                       | EKMR3B1VSN391MP45S |
|                          | 1,000       | 25.4 × 35             | 2.24                                       | EKMR181VSN102MQ35S |                          | 390         | 25.4 × 35             | 1.48                                       | EKMR3B1VSN391MQ35S |
|                          | 1,000       | 30 × 25               | 1.90                                       | EKMR181VSN102MR25S |                          | 390         | 30 × 25               | 1.39                                       | EKMR3B1VSN391MR25S |
|                          | 1,200       | 22 × 50               | 2.69                                       | EKMR181VSN122MP50S |                          | 470         | 22 × 50               | 1.72                                       | EKMR3B1VSN471MP50S |
|                          | 1,200       | 25.4 × 40             | 2.52                                       | EKMR181VSN122MQ40S |                          | 470         | 25.4 × 40             | 1.67                                       | EKMR3B1VSN471MQ40S |
|                          | 1,200       | 30 × 30               | 2.14                                       | EKMR181VSN122MR30S |                          | 470         | 30 × 30               | 1.57                                       | EKMR3B1VSN471MR30S |
|                          | 1,200       | 35 × 25               | 1.94                                       | EKMR181VSN122MA25S |                          | 470         | 35 × 25               | 1.52                                       | EKMR3B1VSN471MA25S |
|                          | 1,500       | 25.4 × 45             | 2.88                                       | EKMR181VSN152MQ45S |                          | 560         | 25.4 × 45             | 1.86                                       | EKMR3B1VSN561MQ45S |
|                          | 1,500       | 25.4 × 50             | 2.94                                       | EKMR181VSN152MQ50S |                          | 560         | 30 × 35               | 1.78                                       | EKMR3B1VSN561MR35S |
|                          | 1,500       | 30 × 35               | 2.49                                       | EKMR181VSN152MR35S |                          | 680         | 25.4 × 50             | 2.10                                       | EKMR3B1VSN681MQ50S |
|                          | 1,800       | 30 × 40               | 2.82                                       | EKMR181VSN182MR40S |                          | 680         | 30 × 40               | 2.03                                       | EKMR3B1VSN681MR40S |
|                          | 1,800       | 35 × 30               | 2.47                                       | EKMR181VSN182MA30S |                          | 680         | 35 × 30               | 1.90                                       | EKMR3B1VSN681MA30S |
|                          | 2,200       | 30 × 45               | 3.23                                       | EKMR181VSN222MR45S |                          | 820         | 30 × 45               | 2.31                                       | EKMR3B1VSN821MR45S |
|                          | 2,200       | 30 × 50               | 3.31                                       | EKMR181VSN222MR50S |                          | 820         | 35 × 35               | 2.13                                       | EKMR3B1VSN821MA35S |
| 200                      | 2,200       | 35 × 35               | 2.79                                       | EKMR181VSN222MA35S | 350                      | 1,000       | 30 × 50               | 2.61                                       | EKMR3B1VSN102MR50S |
|                          | 2,200       | 35 × 40               | 2.92                                       | EKMR181VSN222MA40S |                          | 1,000       | 35 × 40               | 2.46                                       | EKMR3B1VSN102MA40S |
|                          | 2,700       | 35 × 45               | 3.33                                       | EKMR181VSN272MA45S |                          | 1,200       | 35 × 45               | 2.78                                       | EKMR3B1VSN122MA45S |
|                          | 560         | 22 × 30               | 1.66                                       | EKMR201VSN561MP30S |                          | 1,200       | 35 × 50               | 2.86                                       | EKMR3B1VSN122MA50S |
|                          | 560         | 25.4 × 25             | 1.56                                       | EKMR201VSN561MQ25S |                          | 150         | 22 × 25               | 0.84                                       | EKMR351VSN151MP25S |
|                          | 680         | 22 × 35               | 1.87                                       | EKMR201VSN681MP35S |                          | 220         | 22 × 30               | 1.06                                       | EKMR351VSN221MP30S |
|                          | 680         | 25.4 × 30             | 1.77                                       | EKMR201VSN681MQ30S |                          | 220         | 25.4 × 25             | 1.04                                       | EKMR351VSN221MQ25S |
|                          | 820         | 22 × 40               | 2.11                                       | EKMR201VSN821MP40S |                          | 270         | 22 × 35               | 1.20                                       | EKMR351VSN271MP35S |
|                          | 820         | 25.4 × 35             | 2.03                                       | EKMR201VSN821MQ35S |                          | 270         | 25.4 × 30             | 1.18                                       | EKMR351VSN271MQ30S |
|                          | 820         | 30 × 25               | 1.72                                       | EKMR201VSN821MR25S |                          | 330         | 22 × 40               | 1.37                                       | EKMR351VSN331MP40S |
|                          | 1,000       | 22 × 50               | 2.45                                       | EKMR201VSN102MP50S |                          | 330         | 22 × 45               | 1.40                                       | EKMR351VSN331MP45S |
|                          | 1,000       | 25.4 × 40             | 2.30                                       | EKMR201VSN102MQ40S |                          | 330         | 25.4 × 35             | 1.36                                       | EKMR351VSN331MQ35S |
|                          | 1,000       | 30 × 30               | 1.95                                       | EKMR201VSN102MR30S |                          | 330         | 30 × 25               | 1.28                                       | EKMR351VSN331MR25S |
|                          | 1,200       | 25.4 × 45             | 2.58                                       | EKMR201VSN122MQ45S |                          | 390         | 22 × 50               | 1.56                                       | EKMR351VSN391MP50S |
|                          | 1,200       | 30 × 35               | 2.23                                       | EKMR201VSN122MR35S |                          | 390         | 25.4 × 40             | 1.52                                       | EKMR351VSN391MQ40S |
|                          | 1,200       | 35 × 25               | 1.94                                       | EKMR201VSN122MA25S |                          | 390         | 30 × 30               | 1.43                                       | EKMR351VSN391MR30S |
|                          | 1,500       | 25.4 × 50             | 2.94                                       | EKMR201VSN152MQ50S |                          | 390         | 35 × 25               | 1.38                                       | EKMR351VSN391MA25S |
|                          | 1,500       | 30 × 40               | 2.58                                       | EKMR201VSN152MR40S |                          | 470         | 25.4 × 45             | 1.71                                       | EKMR351VSN471MQ45S |
|                          | 1,500       | 35 × 30               | 2.25                                       | EKMR201VSN152MA30S |                          | 560         | 25.4 × 50             | 1.90                                       | EKMR351VSN561MQ50S |
|                          | 1,800       | 30 × 45               | 2.92                                       | EKMR201VSN182MR45S |                          | 560         | 30 × 35               | 1.78                                       | EKMR351VSN561MR35S |
|                          | 1,800       | 35 × 35               | 2.53                                       | EKMR201VSN182MA35S |                          | 560         | 30 × 40               | 1.84                                       | EKMR351VSN561MR40S |
| 200                      | 2,200       | 30 × 50               | 3.31                                       | EKMR201VSN222MR50S |                          | 560         | 35 × 30               | 1.72                                       | EKMR351VSN561MA30S |
|                          | 2,200       | 35 × 40               | 2.92                                       | EKMR201VSN222MA40S |                          | 680         | 30 × 45               | 2.10                                       | EKMR351VSN681MR45S |
|                          | 2,700       | 35 × 45               | 3.33                                       | EKMR201VSN272MA45S |                          | 680         | 35 × 35               | 1.94                                       | EKMR351VSN681MA35S |
|                          |             |                       |                                            |                    |                          | 820         | 30 × 50               | 2.36                                       | EKMR351VSN821MR50S |
|                          |             |                       |                                            |                    |                          |             |                       |                                            |                    |

◆STANDARD RATINGS

| WV<br>(V <sub>dc</sub> ) | Cap<br>(μF) | Case size<br>φD×L(mm) | Rated ripple<br>current<br>(Arms/105°C, 120Hz) | Part No.           | WV<br>(V <sub>dc</sub> ) | Cap<br>(μF) | Case size<br>φD×L(mm) | Rated ripple<br>current<br>(Arms/105°C, 120Hz) | Part No.           |
|--------------------------|-------------|-----------------------|------------------------------------------------|--------------------|--------------------------|-------------|-----------------------|------------------------------------------------|--------------------|
| 350                      | 820         | 35 × 40               | 2.23                                           | EKMR351VSN821MA40S | 420                      | 270         | 25.4 × 40             | 1.32                                           | EKMR421VSN271MQ40S |
|                          | 1,000       | 35 × 45               | 2.54                                           | EKMR351VSN102MA45S |                          | 270         | 30 × 30               | 1.26                                           | EKMR421VSN271MR30S |
|                          | 1,200       | 35 × 50               | 2.86                                           | EKMR351VSN122MA50S |                          | 270         | 35 × 25               | 1.26                                           | EKMR421VSN271MA25S |
| 400                      | 120         | 22 × 25               | 0.75                                           | EKMR401VSN121MP25S |                          | 330         | 25.4 × 45             | 1.49                                           | EKMR421VSN331MQ45S |
|                          | 180         | 22 × 30               | 0.96                                           | EKMR401VSN181MP30S |                          | 330         | 30 × 35               | 1.45                                           | EKMR421VSN331MR35S |
|                          | 180         | 25.4 × 25             | 0.94                                           | EKMR401VSN181MQ25S |                          | 390         | 25.4 × 50             | 1.66                                           | EKMR421VSN391MQ50S |
|                          | 220         | 22 × 35               | 1.09                                           | EKMR401VSN221MP35S |                          | 390         | 30 × 40               | 1.63                                           | EKMR421VSN391MR40S |
|                          | 220         | 25.4 × 30             | 1.07                                           | EKMR401VSN221MQ30S |                          | 390         | 35 × 30               | 1.58                                           | EKMR421VSN391MA30S |
|                          | 270         | 22 × 40               | 1.24                                           | EKMR401VSN271MP40S |                          | 470         | 30 × 45               | 1.85                                           | EKMR421VSN471MR45S |
|                          | 270         | 22 × 45               | 1.26                                           | EKMR401VSN271MP45S |                          | 470         | 35 × 35               | 1.77                                           | EKMR421VSN471MA35S |
|                          | 270         | 25.4 × 35             | 1.23                                           | EKMR401VSN271MQ35S |                          | 560         | 30 × 50               | 2.07                                           | EKMR421VSN561MR50S |
|                          | 270         | 30 × 25               | 1.16                                           | EKMR401VSN271MR25S |                          | 560         | 35 × 40               | 2.02                                           | EKMR421VSN561MA40S |
|                          | 330         | 22 × 50               | 1.44                                           | EKMR401VSN331MP50S |                          | 680         | 35 × 45               | 2.29                                           | EKMR421VSN681MA45S |
|                          | 330         | 25.4 × 40             | 1.40                                           | EKMR401VSN331MQ40S |                          | 820         | 35 × 50               | 2.59                                           | EKMR421VSN821MA50S |
|                          | 330         | 30 × 30               | 1.31                                           | EKMR401VSN331MR30S | 450                      | 100         | 22 × 25               | 0.71                                           | EKMR451VSN101MP25S |
|                          | 330         | 35 × 25               | 1.27                                           | EKMR401VSN331MA25S |                          | 120         | 22 × 30               | 0.82                                           | EKMR451VSN121MP30S |
|                          | 390         | 25.4 × 45             | 1.55                                           | EKMR401VSN391MQ45S |                          | 150         | 22 × 35               | 0.94                                           | EKMR451VSN151MP35S |
|                          | 390         | 30 × 35               | 1.49                                           | EKMR401VSN391MR35S |                          | 150         | 25.4 × 25             | 0.89                                           | EKMR451VSN151MQ25S |
|                          | 470         | 25.4 × 50             | 1.74                                           | EKMR401VSN471MQ50S |                          | 180         | 22 × 40               | 1.05                                           | EKMR451VSN181MP40S |
|                          | 470         | 30 × 40               | 1.69                                           | EKMR401VSN471MR40S |                          | 180         | 25.4 × 30             | 1.00                                           | EKMR451VSN181MQ30S |
|                          | 470         | 35 × 30               | 1.58                                           | EKMR401VSN471MA30S |                          | 220         | 22 × 45               | 1.19                                           | EKMR451VSN221MP45S |
|                          | 560         | 30 × 45               | 1.91                                           | EKMR401VSN561MR45S |                          | 220         | 25.4 × 35             | 1.16                                           | EKMR451VSN221MQ35S |
|                          | 560         | 35 × 35               | 1.76                                           | EKMR401VSN561MA35S |                          | 220         | 30 × 25               | 1.11                                           | EKMR451VSN221MR25S |
|                          | 680         | 30 × 50               | 2.15                                           | EKMR401VSN681MR50S |                          | 270         | 22 × 50               | 1.36                                           | EKMR451VSN271MP50S |
|                          | 680         | 35 × 40               | 2.03                                           | EKMR401VSN681MA40S |                          | 270         | 25.4 × 40             | 1.32                                           | EKMR451VSN271MQ40S |
|                          | 820         | 35 × 45               | 2.30                                           | EKMR401VSN821MA45S |                          | 270         | 25.4 × 45             | 1.35                                           | EKMR451VSN271MQ45S |
|                          | 820         | 35 × 50               | 2.37                                           | EKMR401VSN821MA50S |                          | 270         | 30 × 30               | 1.26                                           | EKMR451VSN271MR30S |
|                          | 1,000       | 35 × 50               | 2.50                                           | EKMR401VSN102MA50S |                          | 270         | 35 × 25               | 1.26                                           | EKMR451VSN271MA25S |
| 420                      | 120         | 22 × 25               | 0.78                                           | EKMR421VSN121MP25S |                          | 330         | 25.4 × 50             | 1.52                                           | EKMR451VSN331MQ50S |
|                          | 150         | 22 × 30               | 0.91                                           | EKMR421VSN151MP30S |                          | 330         | 30 × 35               | 1.45                                           | EKMR451VSN331MR35S |
|                          | 150         | 25.4 × 25             | 0.89                                           | EKMR421VSN151MQ25S |                          | 330         | 35 × 30               | 1.45                                           | EKMR451VSN331MA30S |
|                          | 180         | 22 × 35               | 1.03                                           | EKMR421VSN181MP35S |                          | 390         | 30 × 40               | 1.63                                           | EKMR451VSN391MR40S |
|                          | 180         | 25.4 × 30             | 1.00                                           | EKMR421VSN181MQ30S |                          | 470         | 30 × 45               | 1.85                                           | EKMR451VSN471MR45S |
|                          | 220         | 22 × 40               | 1.16                                           | EKMR421VSN221MP40S |                          | 470         | 30 × 50               | 1.90                                           | EKMR451VSN471MR50S |
|                          | 220         | 22 × 45               | 1.19                                           | EKMR421VSN221MP45S |                          | 470         | 35 × 35               | 1.77                                           | EKMR451VSN471MA35S |
|                          | 220         | 25.4 × 35             | 1.16                                           | EKMR421VSN221MQ35S |                          | 560         | 35 × 40               | 2.02                                           | EKMR451VSN561MA40S |
|                          | 220         | 30 × 25               | 1.11                                           | EKMR421VSN221MR25S |                          | 560         | 35 × 45               | 2.08                                           | EKMR451VSN561MA45S |
|                          | 270         | 22 × 50               | 1.36                                           | EKMR421VSN271MP50S |                          | 680         | 35 × 50               | 2.36                                           | EKMR451VSN681MA50S |

◆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 deterioration of aluminum electrolytic capacitors accelerates their life due to the internal heating produced by ripple current. For details, refer to Section "5-3 Ripple Current Effect on Lifetime" in the catalog, Technical Note.