

◆ STANDARD RATINGS

| WV (V _{dc}) | Cap (μF) | Case size φD×L(mm) | tan δ | Rated ripple current (mA _{rms} /105°C, 120Hz) | Part No. | WV (V _{dc}) | Cap (μF) | Case size φD×L(mm) | tan δ | Rated ripple current (mA _{rms} /105°C, 120Hz) | Part No. | |
|-----------------------|-----------|--------------------|--------|--|--------------------|-----------------------|-----------|--------------------|-----------|--|--------------------|--------------------|
| 6.3 | 220 | 5 × 11 | 0.34 | 140 | EKMG6R3E□□221ME11D | 63 | 10 | 5 × 11 | 0.10 | 46 | EKMG630E□□100ME11D | |
| | 330 | 6.3 × 11 | 0.34 | 190 | EKMG6R3E□□331MF11D | | 22 | 5 × 11 | 0.10 | 71 | EKMG630E□□220ME11D | |
| | 470 | 6.3 × 11 | 0.34 | 230 | EKMG6R3E□□471MF11D | | 33 | 6.3 × 11 | 0.10 | 100 | EKMG630E□□330MF11D | |
| | 1,000 | 8 × 11.5 | 0.34 | 380 | EKMG6R3E□□102MHB5D | | 47 | 6.3 × 11 | 0.10 | 120 | EKMG630E□□470MF11D | |
| | 2,200 | 10 × 20 | 0.36 | 710 | EKMG6R3E□□222MJ20S | | 100 | 10 × 12.5 | 0.10 | 215 | EKMG630E□□101MJC5S | |
| | 3,300 | 10 × 20 | 0.38 | 840 | EKMG6R3E□□332MJ20S | | 220 | 10 × 16 | 0.10 | 335 | EKMG630E□□221MJ16S | |
| | 4,700 | 12.5 × 20 | 0.40 | 1,090 | EKMG6R3E□□472MK20S | | 330 | 10 × 20 | 0.10 | 510 | EKMG630E□□331MJ20S | |
| | 6,800 | 12.5 × 25 | 0.44 | 1,350 | EKMG6R3E□□682MK25S | | 470 | 12.5 × 20 | 0.10 | 640 | EKMG630E□□471MK20S | |
| | 10,000 | 16 × 25 | 0.52 | 1,650 | EKMG6R3E□□103ML25S | | 1,000 | 16 × 25 | 0.10 | 930 | EKMG630E□□102ML25S | |
| | 15,000 | 16 × 35.5 | 0.62 | 2,010 | EKMG6R3E□□153MLP1S | | 100 | 1.0 | 5 × 11 | 0.08 | 15 | EKMG101E□□1R0ME11D |
| 22,000 | 18 × 40 | 0.76 | 2,350 | EKMG6R3E□□223MM40S | 2.2 | 5 × 11 | | 0.08 | 21 | EKMG101E□□2R2ME11D | | |
| 10 | 220 | 6.3 × 11 | 0.24 | 170 | EKMG100E□□221MF11D | 3.3 | | 5 × 11 | 0.08 | 29 | EKMG101E□□3R3ME11D | |
| | 330 | 6.3 × 11 | 0.24 | 200 | EKMG100E□□331MF11D | 4.7 | | 5 × 11 | 0.08 | 32 | EKMG101E□□4R7ME11D | |
| | 470 | 8 × 11.5 | 0.24 | 250 | EKMG100E□□471MHB5D | 10 | | 6.3 × 11 | 0.08 | 54 | EKMG101E□□100MF11D | |
| | 1,000 | 10 × 12.5 | 0.24 | 460 | EKMG100E□□102MJC5S | 22 | | 8 × 11.5 | 0.08 | 93 | EKMG101E□□220MHB5D | |
| | 2,200 | 10 × 20 | 0.26 | 760 | EKMG100E□□222MJ20S | 33 | | 8 × 11.5 | 0.08 | 130 | EKMG101E□□330MHB5D | |
| | 3,300 | 12.5 × 20 | 0.28 | 1,000 | EKMG100E□□332MK20S | 47 | | 10 × 12.5 | 0.08 | 165 | EKMG101E□□470MJC5S | |
| | 4,700 | 12.5 × 25 | 0.30 | 1,260 | EKMG100E□□472MK25S | 100 | | 10 × 20 | 0.08 | 265 | EKMG101E□□101MJ20S | |
| | 6,800 | 16 × 25 | 0.34 | 1,570 | EKMG100E□□682ML25S | 220 | | 12.5 × 25 | 0.08 | 440 | EKMG101E□□221MK25S | |
| | 10,000 | 16 × 35.5 | 0.42 | 1,890 | EKMG100E□□103MLP1S | 330 | 16 × 25 | 0.08 | 540 | EKMG101E□□331ML25S | | |
| | 15,000 | 18 × 35.5 | 0.52 | 2,180 | EKMG100E□□153MMP1S | 470 | 16 × 31.5 | 0.08 | 715 | EKMG101E□□471MLN3S | | |
| 16 | 100 | 5 × 11 | 0.20 | 110 | EKMG160E□□101ME11D | 1,000 | 18 × 40 | 0.08 | 985 | EKMG101E□□102MM40S | | |
| | 220 | 6.3 × 11 | 0.20 | 180 | EKMG160E□□221MF11D | 160 | 3.3 | 6.3 × 11 | 0.20 | 28 | EKMG161E□□3R3MF11D | |
| | 330 | 8 × 11.5 | 0.20 | 260 | EKMG160E□□331MHB5D | | 4.7 | 6.3 × 11 | 0.20 | 34 | EKMG161E□□4R7MF11D | |
| | 470 | 8 × 11.5 | 0.20 | 310 | EKMG160E□□471MHB5D | | 10 | 10 × 12.5 | 0.20 | 67 | EKMG161E□□100MJC5S | |
| | 1,000 | 10 × 16 | 0.20 | 560 | EKMG160E□□102MJ16S | | 22 | 10 × 20 | 0.20 | 120 | EKMG161E□□220MJ20S | |
| | 2,200 | 12.5 × 20 | 0.22 | 920 | EKMG160E□□222MK20S | | 33 | 10 × 20 | 0.20 | 145 | EKMG161E□□330MJ20S | |
| | 3,300 | 12.5 × 25 | 0.24 | 1,170 | EKMG160E□□332MK25S | | 47 | 12.5 × 20 | 0.20 | 195 | EKMG161E□□470MK20S | |
| | 4,700 | 16 × 25 | 0.26 | 1,480 | EKMG160E□□472ML25S | | 100 | 16 × 25 | 0.20 | 335 | EKMG161E□□101ML25S | |
| | 6,800 | 16 × 31.5 | 0.30 | 1,780 | EKMG160E□□682MLN3S | | 220 | 16 × 31.5 | 0.20 | 540 | EKMG161E□□221MLN3S | |
| | 10,000 | 18 × 35.5 | 0.38 | 2,060 | EKMG160E□□103MMP1S | | 330 | 18 × 35.5 | 0.20 | 705 | EKMG161E□□331MMP1S | |
| 25 | 47 | 5 × 11 | 0.16 | 80 | EKMG250E□□470ME11D | | 200 | 3.3 | 6.3 × 11 | 0.20 | 28 | EKMG201E□□3R3MF11D |
| | 100 | 6.3 × 11 | 0.16 | 130 | EKMG250E□□101MF11D | 4.7 | | 8 × 11.5 | 0.20 | 39 | EKMG201E□□4R7MHB5D | |
| | 220 | 8 × 11.5 | 0.16 | 230 | EKMG250E□□221MHB5D | 10 | | 10 × 16 | 0.20 | 74 | EKMG201E□□100MJ16S | |
| | 330 | 8 × 11.5 | 0.16 | 310 | EKMG250E□□331MHB5D | 22 | | 10 × 20 | 0.20 | 120 | EKMG201E□□220MJ20S | |
| | 470 | 10 × 12.5 | 0.16 | 380 | EKMG250E□□471MJC5S | 33 | | 12.5 × 20 | 0.20 | 160 | EKMG201E□□330MK20S | |
| | 1,000 | 10 × 20 | 0.16 | 680 | EKMG250E□□102MJ20S | 47 | | 12.5 × 20 | 0.20 | 195 | EKMG201E□□470MK20S | |
| | 2,200 | 12.5 × 25 | 0.18 | 1,090 | EKMG250E□□222MK25S | 100 | | 16 × 25 | 0.20 | 335 | EKMG201E□□101ML25S | |
| | 3,300 | 16 × 25 | 0.20 | 1,400 | EKMG250E□□332ML25S | 220 | | 18 × 35.5 | 0.20 | 575 | EKMG201E□□221MMP1S | |
| | 4,700 | 16 × 31.5 | 0.22 | 1,710 | EKMG250E□□472MLN3S | 250 | | 2.2 | 6.3 × 11 | 0.20 | 23 | EKMG251E□□2R2MF11D |
| | 6,800 | 18 × 35.5 | 0.26 | 2,040 | EKMG250E□□682MMP1S | | | 3.3 | 8 × 11.5 | 0.20 | 32 | EKMG251E□□3R3MHB5D |
| 35 | 47 | 5 × 11 | 0.14 | 90 | EKMG350E□□470ME11D | | 4.7 | 8 × 11.5 | 0.20 | 39 | EKMG251E□□4R7MHB5D | |
| | 100 | 6.3 × 11 | 0.14 | 150 | EKMG350E□□101MF11D | | 10 | 10 × 16 | 0.20 | 74 | EKMG251E□□100MJ16S | |
| | 220 | 8 × 11.5 | 0.14 | 270 | EKMG350E□□221MHB5D | | 22 | 12.5 × 20 | 0.20 | 130 | EKMG251E□□220MK20S | |
| | 330 | 10 × 12.5 | 0.14 | 350 | EKMG350E□□331MJC5S | | 33 | 12.5 × 20 | 0.20 | 160 | EKMG251E□□330MK20S | |
| | 470 | 10 × 16 | 0.14 | 460 | EKMG350E□□471MJ16S | | 47 | 12.5 × 25 | 0.20 | 210 | EKMG251E□□470MK25S | |
| | 1,000 | 12.5 × 20 | 0.14 | 810 | EKMG350E□□102MK20S | | 100 | 16 × 31.5 | 0.20 | 365 | EKMG251E□□101MLN3S | |
| | 2,200 | 16 × 25 | 0.16 | 1,260 | EKMG350E□□222ML25S | | 220 | 18 × 40 | 0.20 | 585 | EKMG251E□□221MM40S | |
| | 3,300 | 16 × 35.5 | 0.18 | 1,610 | EKMG350E□□332MLP1S | | 350 | 1.0 | 6.3 × 11 | 0.24 | 15 | EKMG351E□□1R0MF11D |
| | 4,700 | 18 × 35.5 | 0.20 | 1,910 | EKMG350E□□472MMP1S | 2.2 | | 8 × 11.5 | 0.24 | 26 | EKMG351E□□2R2MHB5D | |
| | 50 | 1.0 | 5 × 11 | 0.12 | 13 | EKMG500E□□1R0ME11D | | 3.3 | 10 × 12.5 | 0.24 | 38 | EKMG351E□□3R3MJC5S |
| 2.2 | | 5 × 11 | 0.12 | 20 | EKMG500E□□2R2ME11D | 4.7 | | 10 × 16 | 0.24 | 50 | EKMG351E□□4R7MJ16S | |
| 3.3 | | 5 × 11 | 0.12 | 25 | EKMG500E□□3R3ME11D | 10 | | 10 × 20 | 0.24 | 80 | EKMG351E□□100MJ20S | |
| 4.7 | | 5 × 11 | 0.12 | 30 | EKMG500E□□4R7ME11D | 22 | | 12.5 × 20 | 0.24 | 130 | EKMG351E□□220MK20S | |
| 10 | | 5 × 11 | 0.12 | 40 | EKMG500E□□100ME11D | 33 | | 16 × 25 | 0.24 | 195 | EKMG351E□□330ML25S | |
| 22 | | 5 × 11 | 0.12 | 65 | EKMG500E□□220ME11D | 47 | | 16 × 25 | 0.24 | 230 | EKMG351E□□470ML25S | |
| 33 | | 5 × 11 | 0.12 | 90 | EKMG500E□□330ME11D | 100 | | 18 × 31.5 | 0.24 | 375 | EKMG351E□□101MMN3S | |
| 47 | | 6.3 × 11 | 0.12 | 110 | EKMG500E□□470MF11D | 400 | | 1.0 | 6.3 × 11 | 0.24 | 15 | EKMG401E□□1R0MF11D |
| 100 | | 8 × 11.5 | 0.12 | 180 | EKMG500E□□101MHB5D | | 2.2 | 8 × 11.5 | 0.24 | 26 | EKMG401E□□2R2MHB5D | |
| 220 | | 10 × 12.5 | 0.12 | 300 | EKMG500E□□221MJC5S | | 3.3 | 10 × 12.5 | 0.24 | 38 | EKMG401E□□3R3MJC5S | |
| 330 | 10 × 16 | 0.12 | 410 | EKMG500E□□331MJ16S | 4.7 | | 10 × 16 | 0.24 | 50 | EKMG401E□□4R7MJ16S | | |
| 470 | 10 × 20 | 0.12 | 530 | EKMG500E□□471MJ20S | 10 | | 10 × 20 | 0.24 | 80 | EKMG401E□□100MJ20S | | |
| 1,000 | 12.5 × 25 | 0.12 | 950 | EKMG500E□□102MK25S | 22 | | 12.5 × 25 | 0.24 | 145 | EKMG401E□□220MK25S | | |
| 2,200 | 16 × 35.5 | 0.14 | 1,470 | EKMG500E□□222MLP1S | 33 | | 16 × 25 | 0.24 | 195 | EKMG401E□□330ML25S | | |
| 3,300 | 18 × 35.5 | 0.16 | 1,770 | EKMG500E□□332MMP1S | 47 | | 16 × 31.5 | 0.24 | 250 | EKMG401E□□470MLN3S | | |
| | | | | | | | 100 | 16 × 40 | 0.24 | 350 | EKMG401E□□101ML40S | |

□□ : Enter the appropriate lead forming or taping code.

KMGSeries

◆ **STANDARD RATINGS** is not solvent resistant.

| WV (V _{dc}) | Cap (μF) | Case size φD×L(mm) | tan δ | Rated ripple current (mA _{rms} / 105°C, 120Hz) | Part No. |
|--------------------------|-------------|-----------------------|-------|--|--------------------|
| 450 | 2.2 | 10 × 12.5 | 0.24 | 23 | EKMG451E□□2R2MJC5S |
| | 3.3 | 10 × 16 | 0.24 | 31 | EKMG451E□□3R3MJ16S |
| | 4.7 | 10 × 20 | 0.24 | 40 | EKMG451E□□4R7MJ20S |
| | 10 | 12.5 × 20 | 0.24 | 65 | EKMG451E□□100MK20S |
| | 22 | 16 × 25 | 0.24 | 115 | EKMG451E□□220ML25S |
| | 33 | 16 × 31.5 | 0.24 | 155 | EKMG451E□□330MLN3S |
| | 47 | 16 × 35.5 | 0.24 | 185 | EKMG451E□□470MLP1S |

: Enter the appropriate lead forming or taping code.

◆ **RATED RIPPLE CURRENT MULTIPLIERS**

● Frequency Multipliers

| Capacitance(μF) \ Frequency(Hz) | 50 | 120 | 300 | 1k | 10k | 100k |
|---------------------------------|------|------|------|------|------|------|
| 1.0 to 4.7 | 0.65 | 1.00 | 1.35 | 1.75 | 2.30 | 2.50 |
| 10 to 47 | 0.75 | 1.00 | 1.25 | 1.50 | 1.75 | 1.80 |
| 100 to 1,000 | 0.80 | 1.00 | 1.15 | 1.30 | 1.40 | 1.50 |
| 2,200 to | 0.85 | 1.00 | 1.03 | 1.05 | 1.08 | 1.08 |

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.

Looking for pricing, stock, or lifecycle information?

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