

# Alchip™-MVE Series

- Endurance : 1,000 to 2,000 hours at 105°C
- Case size range :  $\phi 4 \times 5.2\text{L}$  to  $\phi 18 \times 21.5\text{L}$
- Solvent resistant type except 100 to 450V<sub>dc</sub> (see PRECAUTIONS AND GUIDELINES)
- RoHS Compliant
- AEC-Q200 compliant : Please contact Chemi-Con for more details, test data, information.

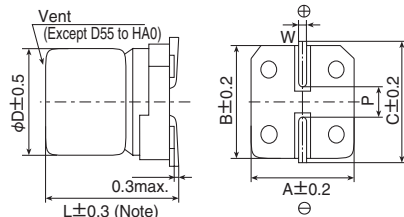
## ◆SPECIFICATIONS

| Items                                                  | Characteristics                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                       |     |     |     |     |                                      |                          |      |             |             |            |  |
|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|--------------------------------------|--------------------------|------|-------------|-------------|------------|--|
| Category                                               | -40 to +105℃                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                       |     |     |     |     |                                      |                          |      |             |             |            |  |
| Temperature Range                                      |                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                       |     |     |     |     |                                      |                          |      |             |             |            |  |
| Rated Voltage Range                                    | 6.3 to 450V <sub>dc</sub>                                                                                                                                            |                                                                                                                                                                                                                                                                                                                       |     |     |     |     |                                      |                          |      |             |             |            |  |
| Capacitance Tolerance                                  | ± 20%(M) (at 20℃, 120Hz)                                                                                                                                             |                                                                                                                                                                                                                                                                                                                       |     |     |     |     |                                      |                          |      |             |             |            |  |
| Leakage Current                                        | Rated voltage (V <sub>dc</sub> )                                                                                                                                     | 6.3 to 100V                                                                                                                                                                                                                                                                                                           |     |     |     |     |                                      | 160 to 450V              |      |             |             |            |  |
|                                                        | D55 to JA0                                                                                                                                                           | I=0.01CV or 3μA, whichever is greater (2 minutes)                                                                                                                                                                                                                                                                     |     |     |     |     |                                      | —                        |      |             |             |            |  |
|                                                        | KE0 to MN0                                                                                                                                                           | I=0.03CV or 4μA, whichever is greater (1 minute)                                                                                                                                                                                                                                                                      |     |     |     |     |                                      | I=0.04CV+100μA (1minute) |      |             |             |            |  |
|                                                        | Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20℃)                                                                   |                                                                                                                                                                                                                                                                                                                       |     |     |     |     |                                      |                          |      |             |             |            |  |
| Dissipation Factor (tan δ )                            | See STANDARD RATINGS (at 20℃, 120Hz)                                                                                                                                 |                                                                                                                                                                                                                                                                                                                       |     |     |     |     |                                      |                          |      |             |             |            |  |
| Low Temperature Characteristics (Max. Impedance Ratio) | Rated voltage (V <sub>dc</sub> )                                                                                                                                     | 6.3V                                                                                                                                                                                                                                                                                                                  | 10V | 16V | 25V | 35V | 50V                                  | 63V                      | 100V | 160 to 250V | 400 to 450V | (at 120Hz) |  |
|                                                        | D55 to JA0                                                                                                                                                           | Z(-25℃)/Z(+20℃)                                                                                                                                                                                                                                                                                                       | 4   | 3   | 2   | 2   | 2                                    | 2                        | 3    | —           | —           |            |  |
|                                                        |                                                                                                                                                                      | Z(-40℃)/Z(+20℃)                                                                                                                                                                                                                                                                                                       | 12  | 8   | 6   | 4   | 3                                    | 3                        | 4    | —           | —           |            |  |
|                                                        | KE0 to MN0                                                                                                                                                           | Z(-25℃)/Z(+20℃)                                                                                                                                                                                                                                                                                                       | 5   | 4   | 3   | 2   | 2                                    | 2                        | 2    | 3           | 6           |            |  |
|                                                        |                                                                                                                                                                      | Z(-40℃)/Z(+20℃)                                                                                                                                                                                                                                                                                                       | 10  | 8   | 6   | 4   | 3                                    | 3                        | 3    | 6           | 10          |            |  |
| Endurance                                              | The following specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage is applied for the specified period of time at 105℃. |                                                                                                                                                                                                                                                                                                                       |     |     |     |     |                                      |                          |      |             |             |            |  |
|                                                        | Size code                                                                                                                                                            | D55 to F80                                                                                                                                                                                                                                                                                                            |     |     |     |     | HA0 to MN0                           |                          |      |             |             |            |  |
|                                                        | Time                                                                                                                                                                 | 1,000 hours                                                                                                                                                                                                                                                                                                           |     |     |     |     | 2,000 hours                          |                          |      |             |             |            |  |
|                                                        | Capacitance change                                                                                                                                                   | ≤ ±30% of the initial value                                                                                                                                                                                                                                                                                           |     |     |     |     | ≤ ±20% of the initial value          |                          |      |             |             |            |  |
|                                                        | D.F. (tan δ )                                                                                                                                                        | ≤300% of the initial specified value                                                                                                                                                                                                                                                                                  |     |     |     |     | ≤200% of the initial specified value |                          |      |             |             |            |  |
|                                                        | Leakage current                                                                                                                                                      | ≤ The initial specified value                                                                                                                                                                                                                                                                                         |     |     |     |     | ≤ 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 (500 hours for B55 to F80 size) 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. |     |     |     |     |                                      |                          |      |             |             |            |  |
| Size code                                              |                                                                                                                                                                      | D55 to F80                                                                                                                                                                                                                                                                                                            |     |     |     |     | HA0 to MN0                           |                          |      |             |             |            |  |
| Capacitance change                                     |                                                                                                                                                                      | ≤ ±25% of the initial value                                                                                                                                                                                                                                                                                           |     |     |     |     | ≤ ±20% of the initial value          |                          |      |             |             |            |  |
| D.F. (tan δ )                                          |                                                                                                                                                                      | ≤200% of the initial specified value                                                                                                                                                                                                                                                                                  |     |     |     |     | ≤200% of the initial specified value |                          |      |             |             |            |  |
| Leakage current                                        |                                                                                                                                                                      | ≤ The initial specified value                                                                                                                                                                                                                                                                                         |     |     |     |     | ≤ The initial specified value        |                          |      |             |             |            |  |
|                                                        |                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                       |     |     |     |     |                                      |                          |      |             |             |            |  |

## ◆DIMENSIONS [mm]

● Terminal Code : A

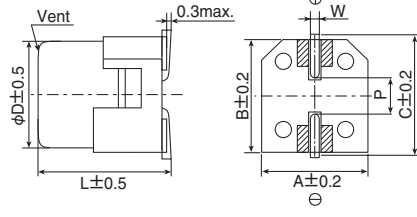
● Size code : D55 to MN0



Note : L±0.5 for HA0 to MN0

● Terminal Code : G (Vibration resistant structure)

● Size code : LH0 to MN0



⊠ : Dummy terminals

| Size code | D    | L    | A    | B    | C    | W          | P   |
|-----------|------|------|------|------|------|------------|-----|
| D55       | 4    | 5.2  | 4.3  | 4.3  | 5.1  | 0.5 to 0.8 | 1.0 |
| E55       | 5    | 5.2  | 5.3  | 5.3  | 5.9  | 0.5 to 0.8 | 1.4 |
| F55       | 6.3  | 5.2  | 6.6  | 6.6  | 7.2  | 0.5 to 0.8 | 1.9 |
| F80       | 6.3  | 7.7  | 6.6  | 6.6  | 7.2  | 0.5 to 0.8 | 1.9 |
| HA0       | 8    | 10.0 | 8.3  | 8.3  | 9.0  | 0.7 to 1.1 | 3.1 |
| JA0       | 10   | 10.0 | 10.3 | 10.3 | 11.0 | 0.7 to 1.1 | 4.5 |
| KE0       | 12.5 | 13.5 | 13.0 | 13.0 | 13.7 | 1.0 to 1.3 | 4.2 |
| KG5       | 12.5 | 16.0 | 13.0 | 13.0 | 13.7 | 1.0 to 1.3 | 4.2 |
| LH0       | 16   | 16.5 | 17.0 | 17.0 | 18.0 | 1.0 to 1.3 | 6.5 |
| LN0       | 16   | 21.5 | 17.0 | 17.0 | 18.0 | 1.0 to 1.3 | 6.5 |
| MH0       | 18   | 16.5 | 19.0 | 19.0 | 20.0 | 1.0 to 1.3 | 6.5 |
| MN0       | 18   | 21.5 | 19.0 | 19.0 | 20.0 | 1.0 to 1.3 | 6.5 |

## ◆MARKING

D55 to JA0

Ex) 16V22 $\mu$ F

7hE

22

16V

KE0 to MN0

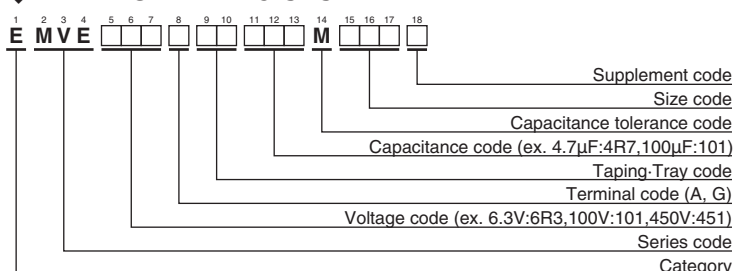
Ex) 25V1,000 $\mu$ F

0V MVE

1000

25V

## ◆PART NUMBERING SYSTEM



## ◆RATED RIPPLE CURRENT MULTIPLIERS

● Frequency Multipliers

| Size code  | Capacitance( $\mu$ F) | Frequency(Hz) | 120  | 1k   | 10k  | 100k |
|------------|-----------------------|---------------|------|------|------|------|
| D55 to JA0 | 1.0                   |               | 1.00 | 1.50 | 1.75 | 1.80 |
|            | 2.2 to 10             |               | 1.00 | 1.30 | 1.40 | 1.50 |
|            | 22 to 1,500           |               | 1.00 | 1.05 | 1.08 | 1.08 |
|            | 3.3 to 4.7            |               | 1.00 | 1.75 | 2.30 | 2.50 |
| KE0 to MN0 | 10 to 68              |               | 1.00 | 1.50 | 1.75 | 1.80 |
|            | 100 to 1,000          |               | 1.00 | 1.30 | 1.40 | 1.50 |
|            | 2,200 to 6,800        |               | 1.00 | 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.

Please refer to "Product code guide (surface mount type)"

◆STANDARD RATINGS

□ is not solvent resistant.

| WV<br>(V <sub>dc</sub> ) | Cap<br>(μF) | Size code | tan δ | Rated ripple<br>current<br>(mA <sub>rms</sub> /105°C, 120Hz) | Part No.           | WV<br>(V <sub>dc</sub> ) | Cap<br>(μF) | Size code | tan δ | Rated ripple<br>current<br>(mA <sub>rms</sub> /105°C, 120Hz) | Part No.           |
|--------------------------|-------------|-----------|-------|--------------------------------------------------------------|--------------------|--------------------------|-------------|-----------|-------|--------------------------------------------------------------|--------------------|
| 6.3                      | 22          | D55       | 0.30  | 22                                                           | EMVE6R3ADA220MD55G | 35                       | 330         | JA0       | 0.16  | 450                                                          | EMVE350ADA331MJA0G |
|                          | 33          | E55       | 0.30  | 34                                                           | EMVE6R3ADA330ME55G |                          | 470         | KE0       | 0.22  | 520                                                          | EMVE350ARA471MKE0S |
|                          | 47          | E55       | 0.30  | 38                                                           | EMVE6R3ADA470ME55G |                          | 470         | LH0       | 0.22  | 650                                                          | EMVE350□DA471MLH0S |
|                          | 100         | F55       | 0.30  | 69                                                           | EMVE6R3ADA101MF55G |                          | 1,000       | LH0       | 0.22  | 750                                                          | EMVE350□DA102MLH0S |
|                          | 220         | F80       | 0.45  | 120                                                          | EMVE6R3ADA221MF80G |                          | 1,000       | MH0       | 0.22  | 1,000                                                        | EMVE350□DA102MMH0S |
|                          | 330         | HA0       | 0.40  | 290                                                          | EMVE6R3ADA331MHA0G |                          | 2,200       | MN0       | 0.24  | 1,450                                                        | EMVE350□DA222MMN0S |
|                          | 470         | HA0       | 0.45  | 320                                                          | EMVE6R3ADA471MHA0G | 50                       | 1.0         | D55       | 0.12  | 8.0                                                          | EMVE500ADA1R0MD55G |
|                          | 680         | HA0       | 0.45  | 340                                                          | EMVE6R3ADA681MHA0G |                          | 2.2         | D55       | 0.12  | 12                                                           | EMVE500ADA2R2MD55G |
|                          | 1,000       | JA0       | 0.40  | 410                                                          | EMVE6R3ADA102MJA0G |                          | 3.3         | D55       | 0.12  | 15                                                           | EMVE500ADA3R3MD55G |
|                          | 1,500       | JA0       | 0.45  | 550                                                          | EMVE6R3ADA152MJA0G |                          | 4.7         | E55       | 0.12  | 20                                                           | EMVE500ADA4R7ME55G |
|                          | 2,200       | KE0       | 0.40  | 680                                                          | EMVE6R3ARA222MKE0S |                          | 10          | F55       | 0.12  | 32                                                           | EMVE500ADA100MF55G |
|                          | 2,200       | LH0       | 0.40  | 840                                                          | EMVE6R3□DA222MLH0S |                          | 33          | F80       | 0.14  | 65                                                           | EMVE500ADA330MF80G |
|                          | 3,300       | KG5       | 0.42  | 850                                                          | EMVE6R3ARA332MKG5S |                          | 47          | F80       | 0.14  | 80                                                           | EMVE500ADA470MF80G |
|                          | 3,300       | MH0       | 0.42  | 1,000                                                        | EMVE6R3□DA332MMH0S |                          | 100         | HA0       | 0.14  | 230                                                          | EMVE500ADA101MHA0G |
|                          | 4,700       | LN0       | 0.44  | 1,200                                                        | EMVE6R3□DA472MLN0S |                          | 220         | JA0       | 0.14  | 375                                                          | EMVE500ADA221MJA0G |
|                          | 4,700       | MH0       | 0.44  | 1,200                                                        | EMVE6R3□DA472MMH0S |                          | 330         | KE0       | 0.18  | 500                                                          | EMVE500ARA331MKE0S |
|                          | 6,800       | LN0       | 0.48  | 1,200                                                        | EMVE6R3□DA682MLN0S |                          | 330         | LH0       | 0.18  | 600                                                          | EMVE500□DA331MLH0S |
|                          | 6,800       | MN0       | 0.48  | 1,350                                                        | EMVE6R3□DA682MMN0S |                          | 470         | LH0       | 0.18  | 700                                                          | EMVE500□DA471MLH0S |
|                          |             |           |       |                                                              |                    |                          | 470         | MH0       | 0.18  | 750                                                          | EMVE500□DA471MMH0S |
|                          |             |           |       |                                                              |                    |                          | 1,000       | MN0       | 0.18  | 1,200                                                        | EMVE500□DA102MMN0S |
| 10                       | 22          | E55       | 0.24  | 30                                                           | EMVE100ADA220ME55G | 63                       | 1.0         | D55       | 0.12  | 8.0                                                          | EMVE630ADA1R0MD55G |
|                          | 33          | E55       | 0.24  | 34                                                           | EMVE100ADA330ME55G |                          | 2.2         | D55       | 0.12  | 12                                                           | EMVE630ADA2R2MD55G |
|                          | 47          | F55       | 0.24  | 48                                                           | EMVE100ADA470MF55G |                          | 3.3         | E55       | 0.12  | 17                                                           | EMVE630ADA3R3ME55G |
|                          | 100         | F55       | 0.30  | 69                                                           | EMVE100ADA101MF55G |                          | 4.7         | F55       | 0.12  | 22                                                           | EMVE630ADA4R7MF55G |
|                          | 150         | F80       | 0.35  | 100                                                          | EMVE100ADA151MF80G |                          | 10          | F55       | 0.12  | 32                                                           | EMVE630ADA100MF55G |
|                          | 220         | F80       | 0.35  | 120                                                          | EMVE100ADA221MF80G |                          | 22          | F80       | 0.12  | 58                                                           | EMVE630ADA220MF80G |
|                          | 330         | HA0       | 0.35  | 290                                                          | EMVE100ADA331MHA0G |                          | 33          | HA0       | 0.12  | 140                                                          | EMVE630ADA330MHA0G |
|                          | 470         | HA0       | 0.35  | 320                                                          | EMVE100ADA471MHA0G |                          | 47          | HA0       | 0.12  | 170                                                          | EMVE630ADA470MHA0G |
|                          | 1,000       | JA0       | 0.35  | 410                                                          | EMVE100ADA102MJA0G |                          | 100         | JA0       | 0.12  | 310                                                          | EMVE630ADA101MJA0G |
|                          | 2,200       | KG5       | 0.36  | 750                                                          | EMVE100ARA222MKG5S |                          | 220         | KE0       | 0.14  | 470                                                          | EMVE630ARA221MKE0S |
|                          | 2,200       | LH0       | 0.36  | 850                                                          | EMVE100□DA222MLH0S |                          | 220         | LH0       | 0.14  | 560                                                          | EMVE630□DA221MLH0S |
|                          | 3,300       | LH0       | 0.38  | 1,000                                                        | EMVE100□DA332MLH0S |                          | 330         | LH0       | 0.14  | 700                                                          | EMVE630□DA331MLH0S |
|                          | 3,300       | MH0       | 0.38  | 1,100                                                        | EMVE100□DA332MMH0S |                          | 330         | MH0       | 0.14  | 750                                                          | EMVE630□DA331MMH0S |
|                          | 4,700       | LN0       | 0.40  | 1,300                                                        | EMVE100□DA472MLN0S |                          | 470         | LN0       | 0.14  | 900                                                          | EMVE630□DA471MLN0S |
|                          | 4,700       | MN0       | 0.40  | 1,350                                                        | EMVE100□DA472MMN0S |                          | 470         | MH0       | 0.14  | 900                                                          | EMVE630□DA471MMH0S |
| 16                       | 10          | D55       | 0.20  | 17                                                           | EMVE160ADA100MD55G | 100                      | 22          | HA0       | 0.12  | 100                                                          | EMVE101ADA220MHA0G |
|                          | 22          | E55       | 0.20  | 30                                                           | EMVE160ADA220ME55G |                          | 33          | JA0       | 0.12  | 150                                                          | EMVE101ADA330MJA0G |
|                          | 33          | F55       | 0.20  | 45                                                           | EMVE160ADA330MF55G |                          | 47          | KE0       | 0.10  | 250                                                          | EMVE101ARA470MKE0S |
|                          | 47          | F55       | 0.20  | 48                                                           | EMVE160ADA470MF55G |                          | 68          | KE0       | 0.10  | 300                                                          | EMVE101ARA680MKE0S |
|                          | 100         | F55       | 0.26  | 69                                                           | EMVE160ADA101MF55G |                          | 100         | KE0       | 0.10  | 380                                                          | EMVE101ARA101MKE0S |
|                          | 150         | F80       | 0.28  | 100                                                          | EMVE160ADA151MF80G |                          | 100         | LH0       | 0.10  | 450                                                          | EMVE101□DA101MLH0S |
|                          | 220         | F80       | 0.28  | 120                                                          | EMVE160ADA221MF80G |                          | 220         | LN0       | 0.10  | 750                                                          | EMVE101□DA221MLN0S |
|                          | 330         | HA0       | 0.28  | 290                                                          | EMVE160ADA331MHA0G |                          | 220         | MH0       | 0.10  | 750                                                          | EMVE101□DA221MMH0S |
|                          | 470         | HA0       | 0.28  | 320                                                          | EMVE160ADA471MHA0G |                          | 330         | MN0       | 0.10  | 980                                                          | EMVE101□DA331MMN0S |
|                          | 680         | JA0       | 0.28  | 470                                                          | EMVE160ADA681MJA0G |                          | 33          | KE0       | 0.15  | 95                                                           | EMVE161ARA330MKE0S |
|                          | 1,000       | KE0       | 0.30  | 550                                                          | EMVE160ARA102MKE0S |                          | 47          | LH0       | 0.15  | 260                                                          | EMVE161□DA470MLH0S |
|                          | 1,000       | LH0       | 0.30  | 650                                                          | EMVE160□DA102MLH0S |                          | 68          | LN0       | 0.15  | 320                                                          | EMVE161□DA680MLN0S |
|                          | 2,200       | LH0       | 0.32  | 950                                                          | EMVE160□DA222MLH0S |                          | 68          | MH0       | 0.15  | 320                                                          | EMVE161□DA680MMH0S |
|                          | 2,200       | MH0       | 0.32  | 1,000                                                        | EMVE160□DA222MMH0S |                          | 100         | LN0       | 0.15  | 380                                                          | EMVE161□DA101MLN0S |
|                          | 3,300       | LN0       | 0.34  | 1,200                                                        | EMVE160□DA332MLN0S | 200                      | 10          | KE0       | 0.15  | 80                                                           | EMVE201ARA100MKE0S |
|                          | 3,300       | MH0       | 0.34  | 1,200                                                        | EMVE160□DA332MMH0S |                          | 22          | KG5       | 0.15  | 110                                                          | EMVE201ARA220MKG5S |
| 25                       | 10          | E55       | 0.16  | 27                                                           | EMVE250ADA100ME55G |                          | 33          | LH0       | 0.15  | 220                                                          | EMVE201□DA330MLH0S |
|                          | 22          | F55       | 0.16  | 44                                                           | EMVE250ADA220MF55G |                          | 47          | LN0       | 0.15  | 270                                                          | EMVE201□DA470MLN0S |
|                          | 33          | F55       | 0.16  | 50                                                           | EMVE250ADA330MF55G |                          | 47          | MH0       | 0.15  | 270                                                          | EMVE201□DA470MMH0S |
|                          | 47          | F55       | 0.16  | 60                                                           | EMVE250ADA470MF55G |                          | 68          | MN0       | 0.15  | 330                                                          | EMVE201□DA680MMN0S |
|                          | 100         | F80       | 0.18  | 100                                                          | EMVE250ADA101MF80G |                          | 4.7         | KE0       | 0.15  | 65                                                           | EMVE251ARA477MKE0S |
|                          | 150         | HA0       | 0.18  | 240                                                          | EMVE250ADA151MHA0G |                          | 10          | KG5       | 0.15  | 105                                                          | EMVE251ARA100MKG5S |
|                          | 220         | HA0       | 0.18  | 320                                                          | EMVE250ADA221MHA0G |                          | 22          | LH0       | 0.15  | 180                                                          | EMVE251□DA220MLH0S |
|                          | 330         | JA0       | 0.16  | 450                                                          | EMVE250ADA331MJA0G |                          | 33          | LN0       | 0.15  | 230                                                          | EMVE251□DA330MLN0S |
|                          | 470         | JA0       | 0.18  | 490                                                          | EMVE250ADA471MJA0G |                          | 33          | MH0       | 0.15  | 230                                                          | EMVE251□DA330MMH0S |
|                          | 1,000       | LH0       | 0.26  | 820                                                          | EMVE250□DA102MLH0S |                          | 47          | MN0       | 0.15  | 280                                                          | EMVE251□DA470MMN0S |
|                          | 1,000       | MH0       | 0.26  | 880                                                          | EMVE250□DA102MMH0S | 400                      | 4.7         | KG5       | 0.20  | 50                                                           | EMVE401ARA477MKG5S |
|                          | 2,200       | LN0       | 0.28  | 1,250                                                        | EMVE250□DA222MLN0S |                          | 10          | LH0       | 0.20  | 85                                                           | EMVE401□DA100MLH0S |
|                          | 2,200       | MN0       | 0.28  | 1,300                                                        | EMVE250□DA222MMN0S |                          | 22          | MN0       | 0.20  | 130                                                          | EMVE401□DA220MMN0S |
| 35                       | 4.7         | D55       | 0.14  | 16                                                           | EMVE350ADA4R7MD55G |                          | 3.3         | KE0       | 0.20  | 40                                                           | EMVE451ARA3R3MKE0S |
|                          | 10          | E55       | 0.14  | 27                                                           | EMVE350ADA100ME55G |                          | 4.7         | KG5       | 0.20  | 50                                                           | EMVE451ARA477MKG5S |
|                          | 22          | F55       | 0.14  | 44                                                           | EMVE350ADA220MF55G |                          | 10          | LH0       | 0.20  | 85                                                           | EMVE451□DA100MLH0S |
|                          | 47          | F80       | 0.16  | 80                                                           | EMVE350ADA470MF80G |                          | 22          | MN0       | 0.20  | 130                                                          | EMVE451□DA220MMN0S |
|                          | 100         | F80       | 0.16  | 100                                                          | EMVE350ADA101MF80G | 450                      |             |           |       |                                                              |                    |
|                          | 150         | HA0       | 0.16  | 260                                                          | EMVE350ADA151MHA0G |                          |             |           |       |                                                              |                    |
|                          | 220         | JA0       | 0.16  | 375                                                          | EMVE350ADA221MJA0G |                          |             |           |       |                                                              |                    |

□ : Enter the appropriate terminal code.

# Mouser Electronics

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## United Chemi-Con (UCC):

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|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| <a href="#">EMVE101ARA680MKE0S</a> | <a href="#">EMVE101ADA330MJA0G</a> | <a href="#">EMVE101ADA101MKE0S</a> | <a href="#">EMVE201ARA220MKG5S</a> |
| <a href="#">EMVE350ARA471MKE0S</a> | <a href="#">EMVE500ADA470MF80G</a> | <a href="#">EMVE630ARA221MKE0S</a> | <a href="#">EMVE100ADA102MJA0G</a> |
| <a href="#">EMVE101ADA220MHA0G</a> | <a href="#">EMVE101ARA680KEOS</a>  | <a href="#">EMVE101ARA680MKD5G</a> | <a href="#">EMVE160ADA220ME55G</a> |
| <a href="#">EMVE250ADA221MHA0G</a> | <a href="#">EMVE250ADA331MJA0G</a> | <a href="#">EMVE250ADA471MJA0G</a> | <a href="#">EMVE350ADA101MF80G</a> |
| <a href="#">EMVE350ADA221MJA0G</a> | <a href="#">EMVE350ADA470MF80G</a> | <a href="#">EMVE500ADA100MF55G</a> | <a href="#">EMVE500ADA1R0MD55G</a> |
| <a href="#">EMVE630ADA100MF55G</a> | <a href="#">EMVE630ADA101MJA0G</a> | <a href="#">EMVE500ADA101MHA0G</a> | <a href="#">EMVE160ADA471MHA0G</a> |
| <a href="#">EMVE101GDA221MLN0S</a> | <a href="#">EMVE630ADA4R7MF55G</a> | <a href="#">EMVE630ADA470MHA0G</a> | <a href="#">EMVE630ADA3R3ME55G</a> |
| <a href="#">EMVE6R3GDA472MLN0S</a> | <a href="#">EMVE630ADA330MHA0G</a> | <a href="#">EMVE630ADA2R2MD55G</a> | <a href="#">EMVE630ADA220MF80G</a> |
| <a href="#">EMVE630ADA1R0MD55G</a> | <a href="#">EMVE6R3ADA101MF55G</a> | <a href="#">EMVE160ADA101MF55G</a> | <a href="#">EMVE630GDA221MLH0S</a> |
| <a href="#">EMVE101GDA331MMN0S</a> | <a href="#">EMVE6R3GDA682MLN0S</a> | <a href="#">EMVE6R3GDA682MMN0S</a> | <a href="#">EMVE6R3GDA472MMH0S</a> |
| <a href="#">EMVE101GDA101MLH0S</a> | <a href="#">EMVE101GDA221MMH0S</a> | <a href="#">EMVE101ARA470MKE0S</a> | <a href="#">EMVE101ARA101MKE0S</a> |
| <a href="#">EMVE100GDA472MMN0S</a> | <a href="#">EMVE6R3ADA470ME55G</a> | <a href="#">EMVE6R3ADA221MF80G</a> | <a href="#">EMVE350ADA220MF55G</a> |
| <a href="#">EMVE630GDA471MLN0S</a> | <a href="#">EMVE6R3GDA332MMH0S</a> | <a href="#">EMVE6R3GDA222MLH0S</a> | <a href="#">EMVE6R3ARA332MKG5S</a> |
| <a href="#">EMVE6R3ARA222MKE0S</a> | <a href="#">EMVE630ADAR47MD55G</a> | <a href="#">EMVE6R3ADA471MHA0G</a> | <a href="#">EMVE6R3ADA331MHA0G</a> |
| <a href="#">EMVE6R3ADA330ME55G</a> | <a href="#">EMVE6R3ADA220MD55G</a> | <a href="#">EMVE6R3ADA102MJA0G</a> | <a href="#">EMVE6R3ADA152MJA0G</a> |
| <a href="#">EMVE630GDA471MMH0S</a> | <a href="#">EMVE630GDA331MMH0S</a> | <a href="#">EMVE630GDA331MLH0S</a> | <a href="#">EMVE6R3ADA681MHA0G</a> |
| <a href="#">EMVE160ADA470MF55G</a> | <a href="#">EMVE101ADA470MJA0G</a> | <a href="#">EMVE250ADA330MF55G</a> | <a href="#">EMVE250ADA220MF55G</a> |
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| <a href="#">EMVE160ARA102MKE0S</a> | <a href="#">EMVE160ARA152MKE0S</a> | <a href="#">EMVE160GDA102MLH0S</a> | <a href="#">EMVE160GDA222MLH0S</a> |
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| <a href="#">EMVE100ADA471MHA0G</a> | <a href="#">EMVE100ADA470MF55G</a> | <a href="#">EMVE100ADA330ME55G</a> | <a href="#">EMVE100ADA220ME55G</a> |
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