

Alchip™-MV Series

- Height 5.2 to 10.0mm
- Suitable to fit for downsized equipment
- Solvent resistant type
- RoHS Compliant
- MV series will be discontinued, strongly recommended MVA series

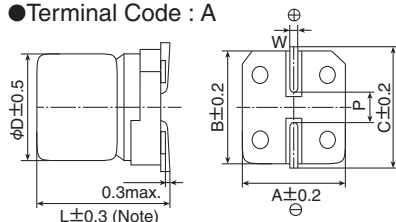


◆ SPECIFICATIONS

| Items | Characteristics | | | | | | | | | |
|--|--|--------------------------------------|------|------|------|------|------|------|------|------------------|
| Category Temperature Range | -40 to +85°C | | | | | | | | | |
| Rated Voltage Range | 4 to 63V _{dc} | | | | | | | | | |
| Capacitance Tolerance | ±20% (M) (at 20°C, 120Hz) | | | | | | | | | |
| Leakage Current | I=0.01CV or 3μA, whichever is greater. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 2 minutes) | | | | | | | | | |
| Dissipation Factor (tanδ) | Rated voltage (V _{dc}) | 4V | 6.3V | 10V | 16V | 25V | 35V | 50V | 63V | (at 20°C, 120Hz) |
| | tanδ (Max.) | D55 to F55 | 0.42 | 0.24 | 0.20 | 0.16 | 0.14 | 0.12 | 0.10 | |
| Low Temperature Characteristics (Max. Impedance Ratio) | Rated voltage (V _{dc}) | 4V | 6.3V | 10V | 16V | 25V | 35V | 50V | 63V | (at 120Hz) |
| | | Z(-25°C)/Z(+20°C) | 7 | 4 | 3 | 2 | 2 | 2 | 2 | |
| | Z(-40°C)/Z(+20°C) | D55 to F55 | 15 | 10 | 8 | 6 | 4 | 3 | 3 | |
| | | H63 to JA0 | — | 10 | 8 | 6 | 4 | 3 | 3 | |
| Endurance | The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 2,000 hours at 85°C. | | | | | | | | | |
| | Capacitance change | ≤±20% of the initial value | | | | | | | | |
| | D.F. (tanδ) | ≤200% of the initial specified value | | | | | | | | |
| | Leakage current | ≤The initial specified value | | | | | | | | |
| Shelf Life | The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 500 hours at 85°C without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4. | | | | | | | | | |
| | Capacitance change | ≤±15% of the initial value | | | | | | | | |
| | D.F. (tanδ) | ≤150% of the initial specified value | | | | | | | | |
| | Leakage current | ≤The initial specified value | | | | | | | | |

◆ DIMENSIONS [mm]

● Terminal Code : A



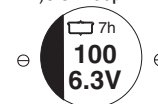
Note : L±0.5 for H63 to JA0

| Size code | D | L | A | B | C | W | P |
|-----------|-----|------|------|------|------|------------|-----|
| D55 & D60 | 4 | *5.2 | 4.3 | 4.3 | 5.1 | 0.5 to 0.8 | 1.0 |
| E55 & E60 | 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 |
| H63 | 8 | 6.3 | 8.3 | 8.3 | 9.0 | 0.5 to 0.8 | 2.3 |
| 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 |

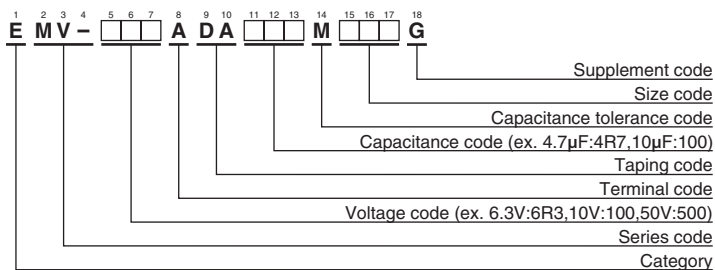
* : L=5.7 for D60 and E60.

◆ MARKING

EX)6.3V100μF



◆ PART NUMBERING SYSTEM



◆STANDARD RATINGS

| WV (Vdc) | Cap (μF) | Size code | tanδ | Rated ripple current (mA _{rms} /85°C, 120Hz) | Part No. | WV (Vdc) | Cap (μF) | Size code | tanδ | Rated ripple current (mA _{rms} /85°C, 120Hz) | Part No. |
|----------|----------|-----------|------|---|--------------------|----------|----------|-----------|------|---|--------------------|
| 4 | 33 | D55 | 0.42 | 23 | EMV-4R0ADA330MD55G | 35 | 4.7 | D55 | 0.12 | 15 | EMV-350ADA4R7MD55G |
| | 47 | D55 | 0.42 | 27 | EMV-4R0ADA470MD55G | | 10 | E55 | 0.12 | 25 | EMV-350ADA100ME55G |
| | 100 | E55 | 0.42 | 46 | EMV-4R0ADA101ME55G | | 22 | F55 | 0.12 | 40 | EMV-350ADA220MF55G |
| | 220 | F55 | 0.42 | 74 | EMV-4R0ADA221MF55G | | 47 | H63 | 0.14 | 105 | EMV-350ADA470MH63G |
| 6.3 | 22 | D55 | 0.24 | 23 | EMV-6R3ADA220MD55G | | 100 | HA0 | 0.14 | 175 | EMV-350ADA101MHA0G |
| | 47 | E55 | 0.24 | 38 | EMV-6R3ADA470ME55G | | 220 | JA0 | 0.14 | 265 | EMV-350ADA221MJA0G |
| | 100 | F55 | 0.24 | 60 | EMV-6R3ADA101MF55G | 50 | 1.0 | D55 | 0.10 | 6.2 | EMV-500ADA1R0MD55G |
| | 330 | H63 | 0.40 | 190 | EMV-6R3ADA331MH63G | | 2.2 | D55 | 0.10 | 10 | EMV-500ADA2R2MD55G |
| | 470 | HA0 | 0.40 | 265 | EMV-6R3ADA471MHA0G | | 3.3 | D55 | 0.10 | 14 | EMV-500ADA3R3MD55G |
| 1,000 | JA0 | 0.40 | 400 | EMV-6R3ADA102MJA0G | 4.7 | | E55 | 0.10 | 19 | EMV-500ADA4R7ME55G | |
| 10 | 33 | E55 | 0.20 | 35 | EMV-100ADA330ME55G | | 10 | F55 | 0.10 | 29 | EMV-500ADA100MF55G |
| | 220 | H63 | 0.30 | 175 | EMV-100ADA221MH63G | | 33 | H63 | 0.12 | 95 | EMV-500ADA330MH63G |
| 16 | 10 | D55 | 0.16 | 17 | EMV-160ADA100MD55G | 47 | HA0 | 0.12 | 140 | EMV-500ADA470MHA0G | |
| | 22 | E55 | 0.16 | 32 | EMV-160ADA220ME55G | 100 | JA0 | 0.12 | 195 | EMV-500ADA101MJA0G | |
| | 47 | F55 | 0.16 | 50 | EMV-160ADA470MF55G | 63 | 1.0 | D60 | 0.12 | 7.0 | EMV-630ADA1R0MD60G |
| | 220 | HA0 | 0.26 | 215 | EMV-160ADA221MHA0G | | 2.2 | D60 | 0.12 | 10 | EMV-630ADA2R2MD60G |
| | 330 | HA0 | 0.26 | 270 | EMV-160ADA331MHA0G | | 3.3 | E60 | 0.12 | 13 | EMV-630ADA3R3ME60G |
| 470 | JA0 | 0.26 | 330 | EMV-160ADA471MJA0G | 10 | | HA0 | 0.12 | 46 | EMV-630ADA100MHA0G | |
| 25 | 33 | F55 | 0.14 | 45 | EMV-250ADA330MF55G | | 22 | HA0 | 0.12 | 69 | EMV-630ADA220MHA0G |
| | 100 | H63 | 0.16 | 145 | EMV-250ADA101MH63G | | 33 | HA0 | 0.12 | 85 | EMV-630ADA330MHA0G |
| | 330 | JA0 | 0.16 | 305 | EMV-250ADA331MJA0G | 47 | HA0 | 0.12 | 101 | EMV-630ADA470MHA0G | |

Mouser Electronics

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[EMV-350ADA100ME55G](#)