



Alchip™-MVH Series

◆STANDARD RATINGS

| WV (Vdc) | Cap (μF) | Size code | ESR (Ω max./100kHz) | | Rated ripple current (mA rms/125°C, 100kHz) | Part No. | WV (Vdc) | Cap (μF) | Size code | ESR (Ω max./100kHz) | | Rated ripple current (mA rms/125°C, 100kHz) | Part No. | |
|----------|----------|-----------|---------------------|-------|---|----------------------|----------------------|-----------|-----------|---------------------|-------|---|----------------------|----------------------|
| | | | 20°C | -40°C | | | | | | 20°C | -40°C | | | |
| 10 | 100 | F80 | 0.90 | 14.0 | 110 | EMVH100 □ RA101MF80G | 35 | 100 | JA0 | 0.30 | 4.5 | 296 | EMVH350 □ RA101MJA0G | |
| | 100 | H63 | 0.90 | 14.0 | 110 | EMVH100ARA101MH63G | | 220 | JA0 | 0.30 | 4.5 | 296 | EMVH350 □ RA221MJA0G | |
| | 220 | F80 | 0.90 | 14.0 | 110 | EMVH100 □ RA221MF80G | | 330 | KE0 | 0.14 | 2.1 | 750 | EMVH350 □ RA331MKE0S | |
| | 220 | H63 | 0.90 | 14.0 | 110 | EMVH100ARA221MH63G | | 330 | LH0 | 0.10 | 1.5 | 1,000 | EMVH350 □ RA331MLH0S | |
| | 220 | HA0 | 0.40 | 6.0 | 220 | EMVH100 □ RA221MHA0G | | 470 | KG5 | 0.11 | 1.5 | 900 | EMVH350 □ RA471MKG5S | |
| | 330 | HA0 | 0.40 | 6.0 | 220 | EMVH100 □ RA331MHA0G | | 470 | LH0 | 0.10 | 1.5 | 1,000 | EMVH350 □ RA471MLH0S | |
| | 330 | JA0 | 0.30 | 4.5 | 296 | EMVH100 □ RA331MJA0G | | 680 | MH0 | 0.10 | 1.5 | 1,200 | EMVH350 □ RA681MMH0S | |
| | 470 | JA0 | 0.30 | 4.5 | 296 | EMVH100 □ RA471MJA0G | | 50 | 10 | F60 | 2.8 | 42.0 | 51 | EMVH500ARA100MF60G |
| | 1,000 | KE0 | 0.14 | 2.1 | 750 | EMVH100 □ RA102MKE0S | | | 10 | F61 | 2.8 | 42.0 | 51 | EMVH500 □ RA100MF61G |
| | 2,200 | LH0 | 0.10 | 1.5 | 1,000 | EMVH100 □ RA222MLH0S | | | 10 | H63 | 1.6 | 30.0 | 83 | EMVH500ARA100MH63G |
| | 2,200 | MH0 | 0.10 | 1.5 | 1,200 | EMVH100 □ RA222MMH0S | | | 22 | F80 | 2.0 | 30.0 | 83 | EMVH500 □ RA220MF80G |
| | 3,300 | MH0 | 0.10 | 1.5 | 1,200 | EMVH100 □ RA332MMH0S | | | 22 | H63 | 1.6 | 30.0 | 83 | EMVH500ARA220MH63G |
| | 4,700 | MN0 | 0.058 | 0.87 | 1,550 | EMVH100 □ RA472MMN0S | | | 33 | F80 | 2.0 | 30.0 | 83 | EMVH500 □ RA330MF80G |
| 16 | 47 | F60 | 1.6 | 24.0 | 69 | EMVH160ARA470MF60G | 33 | | H63 | 1.6 | 30.0 | 83 | EMVH500ARA330MH63G | |
| | 47 | F61 | 1.6 | 24.0 | 69 | EMVH160 □ RA470MF61G | 33 | | HA0 | 0.70 | 11.0 | 160 | EMVH500 □ RA330MHA0G | |
| | 100 | HA0 | 0.40 | 6.0 | 220 | EMVH160 □ RA101MHA0G | 47 | | HA0 | 0.70 | 11.0 | 160 | EMVH500 □ RA470MHA0G | |
| | 220 | HA0 | 0.40 | 6.0 | 220 | EMVH160 □ RA221MHA0G | 47 | | JA0 | 0.50 | 7.5 | 247 | EMVH500 □ RA470MJA0G | |
| | 220 | JA0 | 0.30 | 4.5 | 296 | EMVH160 □ RA221MJA0G | 100 | | JA0 | 0.50 | 7.5 | 247 | EMVH500 □ RA101MJA0G | |
| | 330 | JA0 | 0.30 | 4.5 | 296 | EMVH160 □ RA331MJA0G | 100 | | KE0 | 0.23 | 3.5 | 550 | EMVH500 □ RA101MKE0S | |
| | 470 | KE0 | 0.14 | 2.1 | 750 | EMVH160 □ RA471MKE0S | 220 | | KE0 | 0.23 | 3.5 | 550 | EMVH500 □ RA221MKE0S | |
| | 680 | KE0 | 0.14 | 2.1 | 750 | EMVH160 □ RA681MKE0S | 220 | LH0 | 0.15 | 2.3 | 850 | EMVH500 □ RA221MLH0S | | |
| | 680 | LH0 | 0.10 | 1.5 | 1,000 | EMVH160 □ RA681MLH0S | 330 | KG5 | 0.18 | 2.7 | 700 | EMVH500 □ RA331MKG5S | | |
| | 1,000 | MH0 | 0.10 | 1.5 | 1,200 | EMVH160 □ RA102MMH0S | 330 | LH0 | 0.15 | 2.3 | 850 | EMVH500 □ RA331MLH0S | | |
| | 2,200 | MH0 | 0.10 | 1.5 | 1,200 | EMVH160 □ RA222MMH0S | 470 | MH0 | 0.15 | 2.3 | 920 | EMVH500 □ RA471MMH0S | | |
| | 25 | 33 | F60 | 1.6 | 24.0 | 69 | EMVH250ARA330MF60G | ※ 1 63 | 10 | F80 | 2.0 | 100 | 60 | EMVH630 □ RA100MF80G |
| | | 33 | F61 | 1.6 | 24.0 | 69 | EMVH250 □ RA330MF61G | | 10 | H63 | 2.0 | 110 | 60 | EMVH630ARA100MH63G |
| 47 | | F80 | 0.90 | 14.0 | 110 | EMVH250 □ RA470MF80G | 22 | | HA0 | 0.70 | 35.0 | 100 | EMVH630 □ RA220MHA0G | |
| 47 | | H63 | 0.90 | 14.0 | 110 | EMVH250ARA470MH63G | 33 | | HA0 | 0.70 | 35.0 | 100 | EMVH630 □ RA330MHA0G | |
| 100 | | F80 | 0.90 | 14.0 | 110 | EMVH250 □ RA101MF80G | 33 | | JA0 | 0.50 | 25.0 | 170 | EMVH630 □ RA330MJA0G | |
| 100 | | H63 | 0.90 | 14.0 | 110 | EMVH250ARA101MH63G | 47 | | HA0 | 0.70 | 35.0 | 100 | EMVH630 □ RA470MHA0G | |
| 100 | | HA0 | 0.40 | 6.0 | 220 | EMVH250 □ RA101MHA0G | 47 | | JA0 | 0.50 | 25.0 | 170 | EMVH630 □ RA470MJA0G | |
| 220 | | HA0 | 0.40 | 6.0 | 220 | EMVH250 □ RA221MHA0G | 100 | | KE0 | 0.25 | 12.5 | 500 | EMVH630 □ RA101MKE0S | |
| 220 | | JA0 | 0.30 | 4.5 | 296 | EMVH250 □ RA221MJA0G | 220 | | KG5 | 0.20 | 10.0 | 600 | EMVH630 □ RA221MKG5S | |
| 330 | | JA0 | 0.30 | 4.5 | 296 | EMVH250 □ RA331MJA0G | 330 | | LH0 | 0.18 | 9.0 | 820 | EMVH630 □ RA331MLH0S | |
| 330 | | KE0 | 0.14 | 2.1 | 750 | EMVH250 □ RA331MKE0S | 470 | | LN0 | 0.11 | 5.5 | 1,100 | EMVH630 □ RA471MLN0S | |
| 470 | | KE0 | 0.14 | 2.1 | 750 | EMVH250 □ RA471MKE0S | ※ 1 80 | | 10 | HA0 | 0.75 | 50.0 | 70 | EMVH800 □ RA100MHA0G |
| 470 | | LH0 | 0.10 | 1.5 | 1,000 | EMVH250 □ RA471MLH0S | | | 22 | HA0 | 0.75 | 50.0 | 70 | EMVH800 □ RA220MHA0G |
| 680 | LH0 | 0.10 | 1.5 | 1,000 | EMVH250 □ RA681MLH0S | 22 | | JA0 | 0.55 | 35.0 | 115 | EMVH800 □ RA220MJA0G | | |
| 680 | MH0 | 0.10 | 1.5 | 1,200 | EMVH250 □ RA681MMH0S | 33 | | HA0 | 0.75 | 50.0 | 70 | EMVH800 □ RA330MHA0G | | |
| 1,000 | MN0 | 0.058 | 0.87 | 1,550 | EMVH250 □ RA102MMN0S | 33 | | JA0 | 0.55 | 35.0 | 115 | EMVH800 □ RA330MJA0G | | |
| 35 | 10 | F60 | 1.6 | 24.0 | 69 | EMVH350ARA100MF60G | | 47 | JA0 | 0.55 | 35.0 | 115 | EMVH800 □ RA470MJA0G | |
| | 10 | F61 | 1.6 | 24.0 | 69 | EMVH350 □ RA100MF61G | | 10 | HA0 | 0.75 | 50.0 | 70 | EMVH101 □ RA100MHA0G | |
| | 22 | F60 | 1.6 | 24.0 | 69 | EMVH350ARA220MF60G | | 22 | HA0 | 0.75 | 50.0 | 70 | EMVH101 □ RA220MHA0G | |
| | 22 | F61 | 1.6 | 24.0 | 69 | EMVH350 □ RA220MF61G | | 22 | JA0 | 0.55 | 35.0 | 115 | EMVH101 □ RA220MJA0G | |
| | 33 | F80 | 0.90 | 14.0 | 110 | EMVH350 □ RA330MF80G | | 33 | JA0 | 0.55 | 35.0 | 115 | EMVH101 □ RA330MJA0G | |
| | 33 | H63 | 0.90 | 14.0 | 110 | EMVH350ARA330MH63G | | 47 | KE0 | 0.33 | 16.5 | 450 | EMVH101 □ RA470MKE0S | |
| | 47 | F80 | 0.90 | 14.0 | 110 | EMVH350 □ RA470MF80G | | 68 | KG5 | 0.26 | 13.0 | 550 | EMVH101 □ RA680MKG5S | |
| | 47 | H63 | 0.90 | 14.0 | 110 | EMVH350ARA470MH63G | | 100 | LH0 | 0.24 | 12.0 | 650 | EMVH101 □ RA101MLH0S | |
| | 47 | HA0 | 0.40 | 6.0 | 220 | EMVH350 □ RA470MHA0G | 220 | MN0 | 0.16 | 8.0 | 950 | EMVH101 □ RA221MMN0S | | |
| | 100 | HA0 | 0.40 | 6.0 | 220 | EMVH350 □ RA101MHA0G | | | | | | | | |

□ : Enter the appropriate terminal code.

Production of the products shown in [] is scheduled to be discontinued.

*1: Assembly boards with the designated products attached cannot be cleaned.

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

| Size code | Capacitance(μF) | Frequency(Hz) | | | |
|------------|-----------------|---------------|------|------|------|
| | | 120 | 1k | 10k | 100k |
| F60 to JA0 | 10 | 0.66 | 0.86 | 0.93 | 1.00 |
| | 22 to 470 | 0.93 | 0.97 | 1.00 | 1.00 |
| | 47 to 100 | 0.40 | 0.75 | 0.90 | 1.00 |
| KE0 to MN0 | 220 to 470 | 0.50 | 0.85 | 0.94 | 1.00 |
| | 680 to 1,000 | 0.60 | 0.87 | 0.95 | 1.00 |
| | 2,200 to 3,300 | 0.75 | 0.90 | 0.95 | 1.00 |
| | 4,700 | 0.85 | 0.95 | 0.98 | 1.00 |

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.

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- ⊖ [View EMVH500ARA101MJA0G on WIN SOURCE](#)
- ⊖ [United Chemi-Con Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

- ✓ Global Sourcing Solution
- ✓ Obsolete Management
- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management