# Alchip™-MVE Series

MVE → Longer life: MVL, MVJ

- Endurance : 1,000 to 2,000 hours at 105℃
- Case size range : φ4×5.2L to φ18×21.5L
- Solvent resistant type except 100 to 450Vdc (see PRECAUTIONS AND GUIDELINES)
- RoHS2 Compliant
- AEC-Q200 compliant : Please contact Chemi-Con for more details, test data, information.

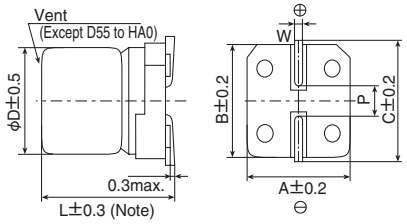
## ◆SPECIFICATIONS

| Items | Characteristics | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category Temperature Range | -40 to +105℃ | | | | | | | | | | | |
| Rated Voltage Range | 6.3 to 450Vdc | | | | | | | | | | | |
| Capacitance Tolerance | ±20%(M) (at 20℃, 120Hz) | | | | | | | | | | | |
| Leakage Current | Rated voltage (Vdc) | 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 (Vdc) | | 6.3V | 10V | 16V | 25V | 35V | 50V | 63V | 100V | 160 to 250V | 400 to 450V |
| | D55 to JA0 | Z(-25℃)/Z(+20℃) | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | — | — |
| | | Z(-40℃)/Z(+20℃) | 12 | 8 | 6 | 4 | 3 | 3 | 3 | 4 | — | — |
| | KE0 to MN0 | Z(-25℃)/Z(+20℃) | 5 | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 6 |
| | | Z(-40℃)/Z(+20℃) | 10 | 8 | 6 | 4 | 3 | 3 | 3 | 3 | 6 | 10 (at 120Hz) |
| 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

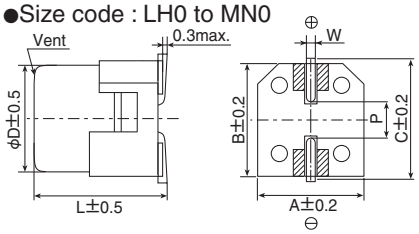
●Size code : D55 to MN0




Note : L±0.5 for HA0 to MN0

●Terminal Code : G (Vibration resistant structure)

●Size code : LH0 to MN0



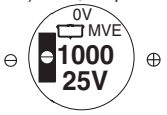

▨ : Dummy terminals

| 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 |

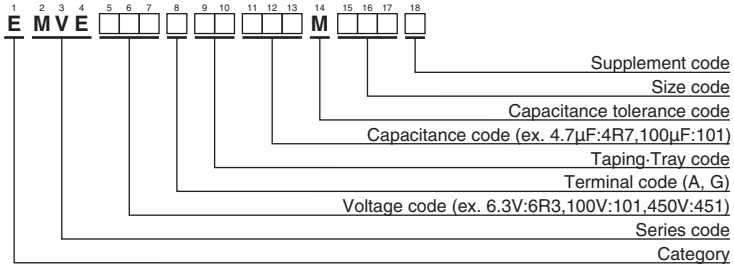
## ◆MARKING

D55 to JA0
Ex)16V22μF

KE0 to MN0
Ex)25V1,000μF




## ◆PART NUMBERING SYSTEM




## ◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

| Size code | Capacitance(μF) \ 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 |
| KE0 to MN0 | 3.3 to 4.7 | 1.00 | 1.75 | 2.30 | 2.50 |
| | 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℃ 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)"

Product specifications in this catalog are subject to change without notice.Request our product specifications before purchase and/or use. Please use our products based on the information contained in this catalog and product specifications.

# Alchip™-MVE Series

## ◆STANDARD RATINGS

is not solvent resistant.

| WV ($V_{dc}$) | Cap (μF) | Size code | tan δ | Rated ripple current (mArms/ 105℃, 120Hz) | Part No. |
|---|---|---|---|---|---|
| 6.3 | 22 | D55 | 0.30 | 22 | EMVE6R3ARA220MD55G |
| | 33 | E55 | 0.30 | 34 | EMVE6R3ARA330ME55G |
| | 47 | E55 | 0.30 | 38 | EMVE6R3ARA470ME55G |
| | 100 | F55 | 0.30 | 69 | EMVE6R3ARA101MF55G |
| | 220 | F80 | 0.45 | 120 | EMVE6R3ARA221MF80G |
| | 330 | HA0 | 0.40 | 290 | EMVE6R3ARA331MHA0G |
| | 470 | HA0 | 0.45 | 320 | EMVE6R3ARA471MHA0G |
| | 680 | HA0 | 0.45 | 340 | EMVE6R3ARA681MHA0G |
| | 1,000 | JA0 | 0.40 | 410 | EMVE6R3ARA102MJA0G |
| | 1,500 | JA0 | 0.45 | 550 | EMVE6R3ARA152MJA0G |
| | 2,200 | KE0 | 0.40 | 680 | EMVE6R3ARA222MKE0S |
| | 2,200 | LH0 | 0.40 | 840 | EMVE6R3□RA222MLH0S |
| | 3,300 | KG5 | 0.42 | 850 | EMVE6R3ARA332MKG5S |
| | 3,300 | MH0 | 0.42 | 1,000 | EMVE6R3□RA332MMH0S |
| | 4,700 | LN0 | 0.44 | 1,200 | EMVE6R3□RA472MLN0S |
| | 4,700 | MH0 | 0.44 | 1,200 | EMVE6R3□RA472MMH0S |
| | 6,800 | LN0 | 0.48 | 1,200 | EMVE6R3□RA682MLN0S |
| | 6,800 | MN0 | 0.48 | 1,350 | EMVE6R3□RA682MMN0S |
| 10 | 22 | E55 | 0.24 | 30 | EMVE100ARA220ME55G |
| | 33 | E55 | 0.24 | 34 | EMVE100ARA330ME55G |
| | 47 | F55 | 0.24 | 48 | EMVE100ARA470MF55G |
| | 100 | F55 | 0.30 | 69 | EMVE100ARA101MF55G |
| | 150 | F80 | 0.35 | 100 | EMVE100ARA151MF80G |
| | 220 | F80 | 0.35 | 120 | EMVE100ARA221MF80G |
| | 330 | HA0 | 0.35 | 290 | EMVE100ARA331MHA0G |
| | 470 | HA0 | 0.35 | 320 | EMVE100ARA471MHA0G |
| | 1,000 | JA0 | 0.35 | 410 | EMVE100ARA102MJA0G |
| | 2,200 | KG5 | 0.36 | 750 | EMVE100ARA222MKG5S |
| | 2,200 | LH0 | 0.36 | 850 | EMVE100□RA222MLH0S |
| | 3,300 | LH0 | 0.38 | 1,000 | EMVE100□RA332MLH0S |
| | 3,300 | MH0 | 0.38 | 1,100 | EMVE100□RA332MMH0S |
| | 4,700 | LN0 | 0.40 | 1,300 | EMVE100□RA472MLN0S |
| | 4,700 | MN0 | 0.40 | 1,350 | EMVE100□RA472MMN0S |
| 16 | 10 | D55 | 0.20 | 17 | EMVE160ARA100MD55G |
| | 22 | E55 | 0.20 | 30 | EMVE160ARA220ME55G |
| | 33 | F55 | 0.20 | 45 | EMVE160ARA330MF55G |
| | 47 | F55 | 0.20 | 48 | EMVE160ARA470MF55G |
| | 100 | F55 | 0.26 | 69 | EMVE160ARA101MF55G |
| | 150 | F80 | 0.28 | 100 | EMVE160ARA151MF80G |
| | 220 | F80 | 0.28 | 120 | EMVE160ARA221MF80G |
| | 330 | HA0 | 0.28 | 290 | EMVE160ARA331MHA0G |
| | 470 | HA0 | 0.28 | 320 | EMVE160ARA471MHA0G |
| | 680 | JA0 | 0.28 | 470 | EMVE160ARA681MJA0G |
| | 1,000 | KE0 | 0.30 | 550 | EMVE160ARA102MKE0S |
| | 1,000 | LH0 | 0.30 | 650 | EMVE160□RA102MLH0S |
| | 2,200 | LH0 | 0.32 | 950 | EMVE160□RA222MLH0S |
| | 2,200 | MH0 | 0.32 | 1,000 | EMVE160□RA222MMH0S |
| | 3,300 | LN0 | 0.34 | 1,200 | EMVE160□RA332MLN0S |
| | 3,300 | MH0 | 0.34 | 1,200 | EMVE160□RA332MMH0S |
| 25 | 10 | E55 | 0.16 | 27 | EMVE250ARA100ME55G |
| | 22 | F55 | 0.16 | 44 | EMVE250ARA220MF55G |
| | 33 | F55 | 0.16 | 50 | EMVE250ARA330MF55G |
| | 47 | F55 | 0.16 | 60 | EMVE250ARA470MF55G |
| | 100 | F80 | 0.18 | 100 | EMVE250ARA101MF80G |
| | 150 | HA0 | 0.18 | 240 | EMVE250ARA151MHA0G |
| | 220 | HA0 | 0.18 | 320 | EMVE250ARA221MHA0G |
| | 330 | JA0 | 0.16 | 450 | EMVE250ARA331MJA0G |
| | 470 | JA0 | 0.18 | 490 | EMVE250ARA471MJA0G |
| | 1,000 | LH0 | 0.26 | 820 | EMVE250□RA102MLH0S |
| | 1,000 | MH0 | 0.26 | 880 | EMVE250□RA102MMH0S |
| | 2,200 | LN0 | 0.28 | 1,250 | EMVE250□RA222MLN0S |
| | 2,200 | MN0 | 0.28 | 1,300 | EMVE250□RA222MMN0S |
| 35 | 4.7 | D55 | 0.14 | 16 | EMVE350ARA4R7MD55G |
| | 10 | E55 | 0.14 | 27 | EMVE350ARA100ME55G |
| | 22 | F55 | 0.14 | 44 | EMVE350ARA220MF55G |
| | 47 | F80 | 0.16 | 80 | EMVE350ARA470MF80G |
| | 100 | F80 | 0.16 | 100 | EMVE350ARA101MF80G |
| | 150 | HA0 | 0.16 | 260 | EMVE350ARA151MHA0G |
| | 220 | JA0 | 0.16 | 375 | EMVE350ARA221MJA0G |

| WV ($V_{dc}$) | Cap (μF) | Size code | tan δ | Rated ripple current (mArms/ 105℃, 120Hz) | Part No. |
|---|---|---|---|---|---|
| 35 | 330 | JA0 | 0.16 | 450 | EMVE350ARA331MJA0G |
| | 470 | KE0 | 0.22 | 520 | EMVE350ARA471MKE0S |
| | 470 | LH0 | 0.22 | 650 | EMVE350□RA471MLH0S |
| | 1,000 | LH0 | 0.22 | 750 | EMVE350□RA102MLH0S |
| | 1,000 | MH0 | 0.22 | 1,000 | EMVE350□RA102MMH0S |
| | 2,200 | MN0 | 0.24 | 1,450 | EMVE350□RA222MMN0S |
| 50 | 1.0 | D55 | 0.12 | 8.0 | EMVE500ARA1R0MD55G |
| | 2.2 | D55 | 0.12 | 12 | EMVE500ARA2R2MD55G |
| | 3.3 | D55 | 0.12 | 15 | EMVE500ARA3R3MD55G |
| | 4.7 | E55 | 0.12 | 20 | EMVE500ARA4R7ME55G |
| | 10 | F55 | 0.12 | 32 | EMVE500ARA100MF55G |
| | 33 | F80 | 0.14 | 65 | EMVE500ARA330MF80G |
| | 47 | F80 | 0.14 | 80 | EMVE500ARA470MF80G |
| | 100 | HA0 | 0.14 | 230 | EMVE500ARA101MHA0G |
| | 220 | JA0 | 0.14 | 375 | EMVE500ARA221MJA0G |
| | 330 | KE0 | 0.18 | 500 | EMVE500ARA331MKE0S |
| | 330 | LH0 | 0.18 | 600 | EMVE500□RA331MLH0S |
| | 470 | LH0 | 0.18 | 700 | EMVE500□RA471MLH0S |
| | 470 | MH0 | 0.18 | 750 | EMVE500□RA471MMH0S |
| | 1,000 | MN0 | 0.18 | 1,200 | EMVE500□RA102MMN0S |
| 63 | 1.0 | D55 | 0.12 | 8.0 | EMVE630ARA1R0MD55G |
| | 2.2 | D55 | 0.12 | 12 | EMVE630ARA2R2MD55G |
| | 3.3 | E55 | 0.12 | 17 | EMVE630ARA3R3ME55G |
| | 4.7 | F55 | 0.12 | 22 | EMVE630ARA4R7MF55G |
| | 10 | F55 | 0.12 | 32 | EMVE630ARA100MF55G |
| | 22 | F80 | 0.12 | 58 | EMVE630ARA220MF80G |
| | 33 | HA0 | 0.12 | 140 | EMVE630ARA330MHA0G |
| | 47 | HA0 | 0.12 | 170 | EMVE630ARA470MHA0G |
| | 100 | JA0 | 0.12 | 310 | EMVE630ARA101MJA0G |
| | 220 | KE0 | 0.14 | 470 | EMVE630ARA221MKE0S |
| | 220 | LH0 | 0.14 | 560 | EMVE630□RA221MLH0S |
| | 330 | LH0 | 0.14 | 700 | EMVE630□RA331MLH0S |
| | 330 | MH0 | 0.14 | 750 | EMVE630□RA331MMH0S |
| | 470 | LN0 | 0.14 | 900 | EMVE630□RA471MLN0S |
| | 470 | MH0 | 0.14 | 900 | EMVE630□RA471MMH0S |
| 100 | 22 | HA0 | 0.12 | 100 | EMVE101ARA220MHA0G |
| | 33 | JA0 | 0.12 | 150 | EMVE101ARA330MJA0G |
| | 47 | KE0 | 0.10 | 250 | EMVE101ARA470MKE0S |
| | 68 | KE0 | 0.10 | 300 | EMVE101ARA680MKE0S |
| | 100 | KE0 | 0.10 | 380 | EMVE101ARA101MKE0S |
| | 100 | LH0 | 0.10 | 450 | EMVE101□RA101MLH0S |
| | 220 | LN0 | 0.10 | 750 | EMVE101□RA221MLN0S |
| | 220 | MH0 | 0.10 | 750 | EMVE101□RA221MMH0S |
| | 330 | MN0 | 0.10 | 980 | EMVE101□RA331MMN0S |
| 160 | 33 | KE0 | 0.15 | 95 | EMVE161ARA330MKE0S |
| | 47 | LH0 | 0.15 | 260 | EMVE161□RA470MLH0S |
| | 68 | LN0 | 0.15 | 320 | EMVE161□RA680MLN0S |
| | 68 | MH0 | 0.15 | 320 | EMVE161□RA680MMH0S |
| | 100 | LN0 | 0.15 | 380 | EMVE161□RA101MLN0S |
| 200 | 10 | KE0 | 0.15 | 80 | EMVE201ARA100MKE0S |
| | 22 | KG5 | 0.15 | 110 | EMVE201ARA220MKG5S |
| | 33 | LH0 | 0.15 | 220 | EMVE201□RA330MLH0S |
| | 47 | LN0 | 0.15 | 270 | EMVE201□RA470MLN0S |
| | 47 | MH0 | 0.15 | 270 | EMVE201□RA470MMH0S |
| | 68 | MN0 | 0.15 | 330 | EMVE201□RA680MMN0S |
| 250 | 4.7 | KE0 | 0.15 | 65 | EMVE251ARA4R7MKE0S |
| | 10 | KG5 | 0.15 | 105 | EMVE251ARA100MKG5S |
| | 22 | LH0 | 0.15 | 180 | EMVE251□RA220MLH0S |
| | 33 | LN0 | 0.15 | 230 | EMVE251□RA330MLN0S |
| | 33 | MH0 | 0.15 | 230 | EMVE251□RA330MMH0S |
| | 47 | MN0 | 0.15 | 280 | EMVE251□RA470MMN0S |
| 400 | 4.7 | KG5 | 0.20 | 50 | EMVE401ARA4R7MKG5S |
| | 10 | LH0 | 0.20 | 85 | EMVE401□RA100MLH0S |
| | 22 | MN0 | 0.20 | 130 | EMVE401□RA220MMN0S |
| 450 | 3.3 | KE0 | 0.20 | 40 | EMVE451ARA3R3MKE0S |
| | 4.7 | KG5 | 0.20 | 50 | EMVE451ARA4R7MKG5S |
| | 10 | LH0 | 0.20 | 85 | EMVE451□RA100MLH0S |
| | 22 | MN0 | 0.20 | 130 | EMVE451□RA220MMN0S |

□ : Enter the appropriate terminal code.

Product specifications in this catalog are subject to change without notice.Request our product specifications before purchase and/or use. Please use our products based on the information contained in this catalog and product specifications.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## United Chemi-Con (UCC):

EMVE101ARA680MKE0S EMVE101ADA330MJA0G EMVE101ADA101MKE0S EMVE201ARA220MKG5S
EMVE350ARA471MKE0S EMVE500ADA470MF80G EMVE630ARA221MKE0S EMVE100ADA102MJA0G
EMVE101ADA220MHA0G EMVE101ARA680KEOS EMVE101ARA680MKD5G EMVE160ADA220ME55G
EMVE250ADA221MHA0G EMVE250ADA331MJA0G EMVE250ADA471MJA0G EMVE350ADA101MF80G
EMVE350ADA221MJA0G EMVE350ADA470MF80G EMVE500ADA100MF55G EMVE500ADA1R0MD55G
EMVE630ADA100MF55G EMVE630ADA101MJA0G EMVE500ADA101MHA0G EMVE160ADA471MHA0G
EMVE101GDA221MLN0S EMVE630ADA4R7MF55G EMVE630ADA470MHA0G EMVE630ADA3R3ME55G
EMVE6R3GDA472MLN0S EMVE630ADA330MHA0G EMVE630ADA2R2MD55G EMVE630ADA220MF80G
EMVE630ADA1R0MD55G EMVE6R3ADA101MF55G EMVE160ADA101MF55G EMVE630GDA221MLH0S
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EMVE630GDA471MMH0S EMVE630GDA331MMH0S EMVE630GDA331MLH0S EMVE6R3ADA681MHA0G
EMVE160ADA470MF55G EMVE101ADA470MJA0G EMVE250ADA330MF55G EMVE250ADA220MF55G
EMVE250ADA151MHA0G EMVE160ADA100MD55G EMVE250ADA100ME55G EMVE160ADA681MJA0G
EMVE160ADA221MF80G EMVE250ADA470MF55G EMVE160ADA331MHA0G EMVE250ADA101MF80G
EMVE160ARA102MKE0S EMVE160ARA152MKE0S EMVE160GDA102MLH0S EMVE160GDA222MLH0S
EMVE160GDA222MMH0S EMVE160GDA332MLN0S EMVE160GDA332MMH0S EMVE160ADA330MF55G
EMVE100ADA221MF80G EMVE350GDA102MLH0S EMVE160ADA151MF80G EMVE100GDA472MLN0S
EMVE100GDA332MMH0S EMVE100GDA332MLH0S EMVE100GDA222MLH0S EMVE100ARA222MKG5S
EMVE100ADA471MHA0G EMVE100ADA470MF55G EMVE100ADA330ME55G EMVE100ADA220ME55G
EMVE100ADA151MF80G EMVE350ADA100ME55G EMVE250GDA222MMN0S EMVE250GDA222MLN0S

Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001
Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

**Данный компонент на территории Российской Федерации**

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

http://moschip.ru/get-element

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

**Офис по работе с юридическими лицами:**

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:
moschip.ru
moschip.ru_4
moschip.ru_6
moschip.ru_9