


# PANASONIC PhotoMos Relays

**Panasonic**

Panasonic Electric Works Corporation of America

 **This product is RoHS compliant.**

Panasonic PhotoMOSTM relays offer high reliability with stable performance. Fast switching speed, low capacitance and small package size ensure that PhotoMOS relays meet the requirements of high performance switching applications, such as ATE, Instrumentation and Medical equipment.

## AQV22 SERIES

- High frequency characteristics with low capacitance between output terminals
- High sensitivity, high speed response
- Low-level off state leakage current
- Controls low-level analog signals
- Low-level thermal electromotive force (Approx. 1μV)
- Small LED voltage drop on input side (Max. 1.5V)



RoHS Compliant

For quantities of 250 and up, call for quote.

| MOUSER STOCK NO.         | Panasonic Part No. | Package Style | Current Rating (mA) | Max. Load Voltage (V) | Contact Arrangement | Price Each |      |      |      |
|--------------------------|--------------------|---------------|---------------------|-----------------------|---------------------|------------|------|------|------|
|                          |                    |               |                     |                       |                     | 1          | 25   | 50   | 100  |
| <b>Through-Hole Type</b> |                    |               |                     |                       |                     |            |      |      |      |
| 769-AQV221               | AQV221             | DIP-6         | 80                  | 40                    | 1 Form A            | 4.57       | 4.19 | 3.73 | 3.16 |
| <b>SMD Type</b>          |                    |               |                     |                       |                     |            |      |      |      |
| 769-AQV221A              | AQV221A            | SMD-6         | 80                  | 40                    | 1 Form A            | 4.57       | 4.19 | 3.73 | 3.16 |
| 769-AQV225A              | AQV225A            | SMD-6         | 120                 | 80                    | 1 Form A            | 4.57       | 4.19 | 3.73 | 3.16 |

## AQV234 SERIES

- High sensitivity type
- Low-level off state leakage current
- Stable ON resistance
- Low-level thermal electromotive force (Approx. 1μV)
- Extremely low closed-circuit offset voltages to enable control of small analog signals without distortion



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|--------------------------|--------------------|---------------|---------------------|-----------------------|---------------------|------------|------|------|------|
|                          |                    |               |                     |                       |                     | 1          | 25   | 50   | 100  |
| <b>Through-Hole Type</b> |                    |               |                     |                       |                     |            |      |      |      |
| 769-AQV234               | AQV234             | DIP-6         | 120                 | 400                   | 1 Form A            | 5.30       | 4.86 | 4.32 | 3.66 |
| <b>SMD Type</b>          |                    |               |                     |                       |                     |            |      |      |      |
| 769-AQV234A              | AQV234A            | SMD-6         | 120                 | 400                   | 1 Form A            | 5.30       | 4.86 | 4.32 | 3.66 |

## AQV25 SERIES

- High sensitivity, low ON resistance
- Optical coupling for extremely high isolation
- Low-level thermal electromotive force (Approx. 1μV)
- Low-level off state leakage current



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|--------------------------|--------------------|---------------|---------------------|-----------------------|---------------------|------------|------|------|------|
|                          |                    |               |                     |                       |                     | 1          | 25   | 50   | 100  |
| <b>Through-Hole Type</b> |                    |               |                     |                       |                     |            |      |      |      |
| 769-AQV251               | AQV251             | DIP-6         | 500                 | 40                    | 1 Form A            | 4.94       | 4.74 | 4.21 | 3.58 |
| 769-AQV252               | AQV252             | DIP-6         | 400                 | 60                    | 1 Form A            | 5.17       | 4.74 | 4.21 | 3.58 |
| 769-AQV253               | AQV253             | DIP-6         | 200                 | 250                   | 1 Form A            | 5.17       | 4.74 | 4.21 | 3.58 |
| 769-AQV254               | AQV254             | DIP-6         | 150                 | 400                   | 1 Form A            | 5.17       | 4.74 | 4.21 | 3.58 |
| 769-AQV257               | AQV257             | DIP-6         | 250                 | 200                   | 1 Form A            | 5.17       | 4.74 | 4.21 | 3.58 |
| 769-AQV258               | AQV258             | DIP-6         | 20                  | 1500                  | 1 Form A            | 5.81       | 5.34 | 4.74 | 4.02 |
| 769-AQV259               | AQV259             | DIP-6         | 30                  | 1000                  | 1 Form A            | 6.05       | 5.55 | 4.93 | 4.18 |
| 769-AQV253H              | AQV253H            | DIP-6         | 200                 | 250                   | 1 Form A            | 5.48       | 5.03 | 4.47 | 3.79 |
| 769-AQV254H              | AQV254H            | DIP-6         | 150                 | 400                   | 1 Form A            | 5.48       | 5.03 | 4.47 | 3.79 |
| <b>SMD Type</b>          |                    |               |                     |                       |                     |            |      |      |      |
| 769-AQV251A              | AQV251A            | SMD-6         | 500                 | 40                    | 1 Form A            | 5.17       | 4.74 | 4.21 | 3.58 |
| 769-AQV252A              | AQV252A            | SMD-6         | 400                 | 60                    | 1 Form A            | 5.17       | 4.74 | 4.21 | 3.58 |
| 769-AQV257A              | AQV257A            | SMD-6         | 250                 | 200                   | 1 Form A            | 5.17       | 4.74 | 4.21 | 3.58 |
| 769-AQV254A              | AQV254A            | SMD-6         | 150                 | 400                   | 1 Form A            | 4.74       | 3.64 | 3.47 | 3.25 |
| 769-AQV258A              | AQV258A            | SMD-6         | 20                  | 1500                  | 1 Form A            | 5.81       | 5.34 | 4.74 | 4.02 |
| 769-AQV259A              | AQV259A            | SMD-6         | 30                  | 1000                  | 1 Form A            | 6.05       | 5.55 | 4.93 | 4.18 |

## AQV252G SERIES

- Greatly improved specs allow you to use this in place of mercury and mechanical relays.
- Greatly increased load current in the same package size.



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|--------------------------|--------------------|---------------|---------------------|-----------------------|---------------------|------------|------|------|------|
|                          |                    |               |                     |                       |                     | 1          | 25   | 50   | 100  |
| <b>Through-Hole Type</b> |                    |               |                     |                       |                     |            |      |      |      |
| 769-AQV252G              | AQV252G            | DIP-6         | 2500                | 60                    | 1 Form A            | 4.60       | 4.23 | 3.84 | 3.52 |
| <b>SMD Type</b>          |                    |               |                     |                       |                     |            |      |      |      |
| 769-AQV252GA             | AQV252GA           | SMD-6         | 2500                | 60                    | 1 Form A            | 5.17       | 4.74 | 4.21 | 3.58 |

## AQV414 SERIES

- Controls low-level analog signals
- High sensitivity, low ON resistance



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|--------------------------|--------------------|---------------|---------------------|-----------------------|---------------------|------------|------|------|------|
|                          |                    |               |                     |                       |                     | 1          | 25   | 50   | 100  |
| <b>Through-Hole Type</b> |                    |               |                     |                       |                     |            |      |      |      |
| 769-AQV414               | AQV414             | DIP-6         | 120                 | 400                   | 1 Form B            | 4.52       | 4.15 | 3.68 | 3.13 |
| <b>SMD Type</b>          |                    |               |                     |                       |                     |            |      |      |      |
| 769-AQV414A              | AQV414A            | SMD-6         | 120                 | 400                   | 1 Form B            | 4.52       | 4.15 | 3.68 | 3.13 |

## AQV414 E AND EH SERIES

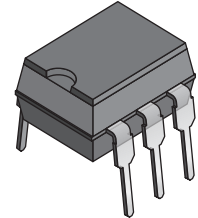
- High sensitivity, low ON resistance
- Reinforced insulation 5,000 V type
- Low-level off-state leakage current



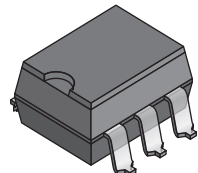
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For quantities of 250 and up, call for quote.

| MOUSER STOCK NO.         | Panasonic Part No. | Package Style | Current Rating (mA) | Max. Load Voltage (V) | Contact Arrangement | Price Each |      |      |      |
|--------------------------|--------------------|---------------|---------------------|-----------------------|---------------------|------------|------|------|------|
|                          |                    |               |                     |                       |                     | 1          | 25   | 50   | 100  |
| <b>Through-Hole Type</b> |                    |               |                     |                       |                     |            |      |      |      |
| 769-AQV414E              | AQV414E            | DIP-6         | 120                 | 400                   | 1 Form B            | 4.09       | 3.75 | 3.32 | 2.83 |
| 769-AQV414EH             | AQV414EH           | DIP-6         | 120                 | 400                   | 1 Form B            | 4.36       | 4.01 | 3.56 | 3.03 |
| <b>SMD Type</b>          |                    |               |                     |                       |                     |            |      |      |      |
| 769-AQV410EHA            | AQV410EHA          | SMD-6         | 130                 | 350                   | 1 Form B            | 4.36       | 4.01 | 3.56 | 3.03 |
| 769-AQV414EHA            | AQV414EHA          | SMD-6         | 120                 | 400                   | 1 Form B            | 4.36       | 4.01 | 3.56 | 3.03 |



DIP-6



SMD-6

Panasonic Solid State Relays