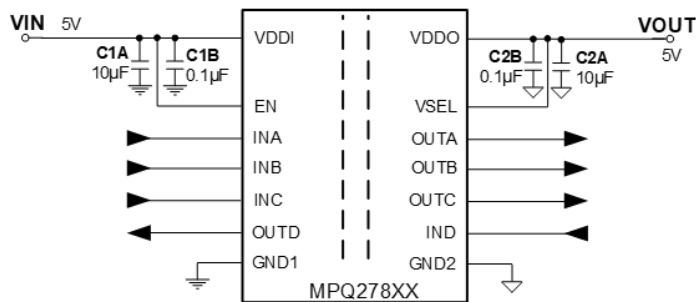


## MPQ27811

3kV<sub>RMS</sub> 2- to 4-Channel Digital Isolator with Integrated Isolated Power Supply



### Description

The MPQ27811 is part of a 2-channel to 4-channel digital isolator family optimized to replace traditional optocoupler isolation in applications. It supports a data rate up to 50Mbps and 5V or 3.3V isolated power supply.

The MPQ27811 uses capacitive isolation technology, supporting up to 3kV<sub>RMS</sub> insulation voltage rating. This isolator provides small size, low power consumption, and higher reliability operation compared to traditional optocoupler isolators.

The MPQ27811 integrates one isolated DC/DC converter with up to 200mA output and 3kV<sub>RMS</sub> isolation, providing isolated power for the isolated data port. The MPQ27811 still provides Schmitt trigger input and isolation encoding/decoding for high immunity in noisy environments. The high/low selectable default failsafe output supports flexible design in application.

The MPQ27811 is available in a wide-body SOICW-16 package.

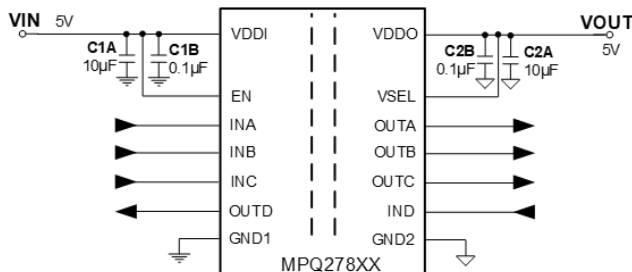
### Features & Benefits

- Integrated Isolated Power Supply
- Supports Up to 50Mbps DC Data Rate
- 3kV<sub>RMS</sub> Isolation
- 4.5V to 5.5V Input Range
- Programmable 5V or 3.3V Output
- Up to 5V/1W Output Power
- Default Output with Optional Logic High (MPQ278xx-H) or Low (MPQ278xx-L)
- High Electromagnetic Immunity
- >±100kV/µs Common-Mode Transient Immunity
- 16ns Propagation Delay
- Isolated Power with Overload and Short-Circuit Protection
- Certificate for IEC62368-1, UL1577, VDE0884-11 (Planning)

- Available in a SOICW-16 Package

## MPQ27821

3kV<sub>RMS</sub> 2- to 4-Channel Digital Isolator with Integrated Isolated Power Supply



### Description

The MPQ27821 is part of a 2-channel to 4-channel digital isolator family optimized to replace traditional optocoupler isolation in applications. It supports a data rate up to 50Mbps and 5V or 3.3V isolated power supply.

The MPQ27821 uses capacitive isolation technology, supporting up to 3kV<sub>rms</sub> insulation voltage rating. This isolator provides small size, low power consumption, and higher reliability operation compared to traditional optocoupler isolators.

The MPQ27821 integrates one isolated DC/DC converter with up to 200mA output and 3kV<sub>RMS</sub> isolation, providing isolated power for the isolated data port. The MPQ27811 still provides Schmitt trigger input and isolation encoding/decoding for high immunity in noisy environments. The high/low selectable default failsafe output supports flexible design in application.

The MPQ27821 is available in a wide-body SOICW-16 package.

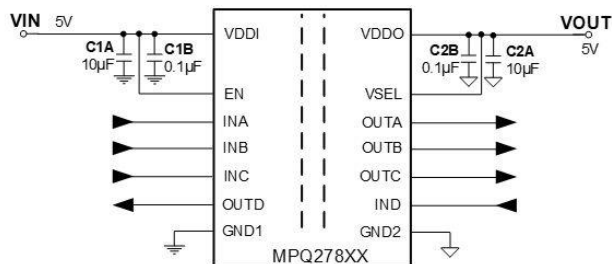
### Features & Benefits

- Integrated Isolated Power Supply
- Supports Up to 50Mbps DC Data Rate
- 3kV<sub>RMS</sub> Isolation
- 4.5V to 5.5V Input Range
- Programmable 5V or 3.3V Output
- Up to 5V/1W Output Power
- Default Output with Optional Logic High (MPQ278xx-H) or Low (MPQ278xx-L)
- High Electromagnetic Immunity
- >±100kV/µs Common-Mode Transient Immunity
- 16ns Propagation Delay
- Isolated Power with Overload and Short-Circuit Protection

- Certificate for IEC62368-1, UL1577, VDE0884-11 (Planning)
- Available in a SOICW-16 Package

## MPQ27831

3kV<sub>RMS</sub> 2- to 4-Channel Digital Isolator with Integrated Isolated Power Supply



### Description

The MPQ27831 is part of a 2-channel to 4-channel digital isolator family optimized to replace traditional optocoupler isolation in applications. It supports a data rate up to 50Mbps and 5V or 3.3V isolated power supply.

The MPQ27831 uses capacitive isolation technology, supporting up to 3kV<sub>RMS</sub> insulation voltage rating. This isolator provides small size, low power consumption, and higher reliability operation compared to traditional optocoupler isolators.

The MPQ27831 integrates one isolated DC/DC converter with up to 200mA output and 3kV<sub>RMS</sub> isolation, providing isolated power for the isolated data port. The MPQ27831 still provides Schmitt trigger input and isolation encoding/decoding for high immunity in noisy environments. The high/low selectable default failsafe output supports flexible design in application.

The MPQ27831 is available in a wide-body SOICW-16 package.

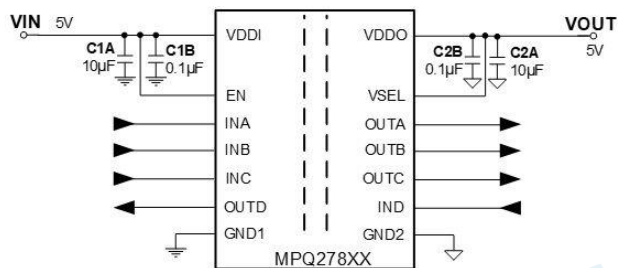
### Features & Benefits

- Integrated Isolated Power Supply
- Supports Up to 50Mbps DC Data Rate
- 3kV<sub>RMS</sub> Isolation
- 4.5V to 5.5V Input Range
- Programmable 5V or 3.3V Output
- Up to 5V/1W Output Power
- Default Output with Optional Logic High (MPQ278xx-H) or Low (MPQ278xx-L)
- High Electromagnetic Immunity
- >±100kV/µs Common-Mode Transient Immunity

- 16ns Propagation Delay
- Isolated Power with Overload and Short-Circuit Protection
- Certificate for IEC62368-1, UL1577, VDE0884-11 (Planning)
- Available in a SOICW-16 Package

## MPQ27822

3kV<sub>RMS</sub> 2- to 4-Channel Digital Isolator with Integrated Isolated Power Supply



### Description

The MPQ27822 is part of a 2-channel to 4-channel digital isolator family optimized to replace traditional optocoupler isolation in applications. It supports a data rate up to 50Mbps and 5V or 3.3V isolated power supply.

The MPQ27822 uses capacitive isolation technology, supporting up to 3kV<sub>RMS</sub> insulation voltage rating. This isolator provides small size, low power consumption, and higher reliability operation compared to traditional optocoupler isolators.

The MPQ27822 integrates one isolated DC/DC converter with up to 200mA output and 3kV<sub>RMS</sub> isolation, providing isolated power for the isolated data port. The MPQ27822 still provides Schmitt trigger input and isolation encoding/decoding for high immunity in noisy environments. The high/low selectable default failsafe output supports flexible design in application.

The MPQ27822 is available in a wide-body SOICW-16 package.

### Features & Benefits

- Integrated Isolated Power Supply
- Supports Up to 50Mbps DC Data Rate
- 3kV<sub>RMS</sub> Isolation
- 4.5V to 5.5V Input Range
- Programmable 5V or 3.3V Output
- Up to 5V/1W Output Power
- Default Output with Optional Logic High (MPQ278xx-H) or Low (MPQ278xx-L)

- High Electromagnetic Immunity
- $>\pm 100\text{kV}/\mu\text{s}$  Common-Mode Transient Immunity
- 16ns Propagation Delay
- Isolated Power with Overload and Short-Circuit Protection
- Certificate for IEC62368-1, UL1577, VDE0884-11 (Planning)
- Available in a SOICW-16 Package

