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Optocouplers - Plastic

- Automotive Optocoupler - AEC-Q100 optocoupler
- Digital Isolator
- Digital Optocoupler
- Eval Kits & Accessories
- General Purpose Phototransistor Optocoupler
- High Linearity Analog Optocoupler
- Integrated Gate Drive Optocoupler
- IFM Interface Optocoupler
- Isolated 20 mA Current Loop Transmitter-Receiver
- Isolated Line Receiver
- Isolated Voltage/Current Detector
- Miniature Isolation Amplifier
- Multi-Channel Bi-Directional Digital Optocoupler
- Powerline Communication Interface
- Solid State Relay (Photo MOSFET)
- Wideband Analog/Video Optocoupler



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HCNW2611

High CMR, High Speed TTL Compatible Optocouplers

All Detail

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Description

The HCNW2611 optocoupler is an optically coupled digital gate that combines a GaAsP light emitting diode and an integrated high gain photo detector. An enable input allows the detector to be strobed. The output of the detector IC is an open collector Schottky-clamped transistor. The internal shield provides a guaranteed common mode transient immunity specification of 10,000 V/ms.



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View Data Sheet (PDF)

Lifecycle status: Active

This unique design provides maximum ac and dc circuit isolation while achieving TTL compatibility. The optocoupler ac and dc operational parameters are guaranteed from -40 degrees C to 85 degrees C allowing troublefree system performance.

HCNW2611 is suitable for high speed logic interfacing, input/output buffering, as line receivers in environments that conventional line receivers cannot tolerate and is recommended for use in extremely high ground or induced noise environments.



Features

- 10 kV/ms Minimum Common Mode Rejection (CMR) at VCM = 1000 V
- High Speed: 10 MBd Typical
- LSTTL/TTL Compatible
- Low Input Current Capability: 5mA
- Guaranteed ac and dc Performance over Temperature: -40 degrees C to 85 degrees C
- Available in 8-Pin DIP, SOIC-8, Widebody Packages
- Stroable Output (Single Channel Products only)
- Safety Approval:

UL Recognized - 3750 V rms for 1 minute and 5000 V rms for 1 minute per UL1577
 CSA Approved
 IEC/EN/DIN EN 60747-5-2 Approved with Viorm = 1414 V peak

Options available are:

300 = Gull Wing Surface Mount Option
 500 = Tape and Reel Packaging Option
 XXXE = Lead Free Option

Applications

- Isolated Line Receiver
- Computer-Peripheral Interfaces
- Microprocessor System Interfaces
- Digital Isolation for A/D, D/A Conversion
- Switching Power Supply
- Instrument Input/Output Isolation
- Ground Loop Elimination
- Pulse Transformer Replacement

Documents

Data Sheets & Technical Specifications

- Data Sheet - 6N137, HCNW137, HCNW2601, HCNW2611, HCPL-0600, HCPL-0601, HCPL-

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- [0611, HCPL-0630, HCPL-0631, HCPL-0661, HCPL-2601, HCPL-2611, HCPL-2630, HCPL-2631, HCPL-4661 - High QVR, High Speed TTL Compatible Optocouplers\(200 KB,PDF\)](#)
- [Options Data Sheet - Option 020 Optocoupler Option for 5000 V rms 1 Minute Requirement\(85 KB,PDF\)](#)
- [Options Data Sheet - Option 060 IEC EN DIN EN 6074752 Option for Plastic Optocouplers\(49 KB,PDF\)](#)
- [Options Data Sheet - Option 300, Gull Wing Surface Mount Option for Optocouplers\(99 KB,PDF\)](#)
- [Options Data Sheet - Option 500 - Tape and Reel Packaging Option for Optocouplers\(93 KB,PDF\)](#)
- [Options Data Sheet - Shipping Tube Dimension for Optocouplers \(Plastic/Solid State Relay\)\(141 KB,PDF\)](#)
- [Selection Guide - Avago Technologies Optoisolation and Optical Sensor Products Selection Catalog\(9811 KB,PDF\)](#)
- [Selection Guide - Optoisolation Products Filo Selection Guide\(1288 KB,PDF\)](#)
- [White Paper - Assuring Data Integrity in an Optically Isolated 3.3 V PC Bus\(124 KB,PDF\)](#)
- [White Paper - Calculate the LED Lifetime Performance in Optocouplers to Predict Reliability\(238 KB,PDF\)](#)
- [White Paper - Building a Safe and Robust Industrial System with Avago Technologies' Optocouplers\(319 KB,PDF\)](#)
- [White Paper - Optocouplers in Industrial Communication\(277 KB,PDF\)](#)

Application Notes

- [Application Brief - AB 102: Optoisolation Product Part Number System\(97 KB,PDF\)](#)
- [Application Note - AN 1043 Common Mode Noise: Sources, Solutions\(77 KB,PDF\)](#)
- [Application Note - AN 1074 Optocoupler Input Output Endurance Voltage\(125 KB,PDF\)](#)
- [Application Note - AN 1087: Thermal Data for Avago Optocouplers\(259 KB,PDF\)](#)
- [Application Note - AN 1321: High Speed CMOS Optocoupler Applications Industrial Field Bus Networks\(86 KB,PDF\)](#)
- [Application Note - AN 5476: Recommended Soldering Profile for Lead-Free Plastic Optocouplers and Solid State Relays\(98 KB,PDF\)](#)
- [Application Note - AN 5486: Digital Optocouplers for Ultra Low Power and High Noise Rejection\(142 KB,PDF\)](#)
- • [Brochures - Isolation Products for Industrial Applications\(3662 KB,PDF\)](#)
- • [Brochures - Isolation Product Solutions for Commercial and Industrial Applications \(3060 KB,PDF\)](#)
- • [FAQs - Avago Technologies Plastic Isolation Products - Frequently Asked Questions\(46 KB,PDF\)](#)

Obsolescence Notices

- [Obsolescence Notice - HF981101-01: Final Product Obsolescence Notice for Option #001 and Option #002\(11 KB,PDF\)](#)

Product Change Notices

- [Product Changes Notice \(PCN\) - CONPOC#82: Epitaxial Reactor Transfer for LEDs\(37 KB,PDF\)](#)
- [Product Changes Notice \(PCN\) - CONPOC#88: Alternative black molding compound\(95 KB,PDF\)](#)
- [Product Changes Notice \(PCN\) - CONPOC#89: Alternative manufacturing location inclusive of testing\(46 KB,Word Document\)](#)
- [Product Changes Notice \(PCN\) - PCN: A03-001-32002150-0A, Sept. 2003\(303 KB,PDF\)](#)
- [Product Changes Notice \(PCN\) - PCN: A05-001-475179-0A, JUL. 2005\(374 KB,PDF\)](#)
- [Product Changes Notice \(PCN\) - PCN: A05-004-32002150-0B, AUG.2006\(38 KB,PDF\)](#)
- [Product Changes Notice \(PCN\) - PCN: V06-002-32002150-0A, May 2006\(34 KB,PDF\)](#)
- [Product Changes Notice \(PCN\) - PCN: V07-001-32002150-0A, Mar. 2007\(18 KB,PDF\)](#)
- [Product Changes Notice \(PCN\) - PCN: V07-003-32002150-0A, Apr. 2007\(19 KB,PDF\)](#)
- [Product Changes Notice \(PCN\) - PCN: V07-003-32002150-0B\(19 KB,PDF\)](#)
- [Product Changes Notice \(PCN\) - V07-010-32002150-0E\(403 KB,PDF\)](#)

Quality & Reliability

- [Regulatory Certificate - IEC60747-5-5 Regulatory Certificate Widebody\(909 KB,PDF\)](#)
- [Reliability Data Sheet - HCNW137, HCNW2601 & HCNW2611 High Speed TTL Compatible Optocouplers\(64 KB,PDF\)](#)