

EL816C410 Optical Coupler Parameters



Overview

The key specifications are a current transfer ratio of minimum 50% at 5mA input current, high 5,000Vrms isolation voltage, and response time of typical 4us. The EL816 series of devices each consist of an infrared emitting diodes, optically coupled to a phototransistor detector. They are packaged in a 4-pin DIP package and available in wide-lead spacing and SMD option. Absolute Maximum Ratings (T A = 25°C Unless otherwise specified. Manufacturer: Wurth Elektronik GmbH & Co. As an isolator, an optocoupler can prevent high voltages from affecting the side of the circuit receiving the signal. Transferring signals over a light. Within this domain, the 818 light-coupling unit stands as a beacon of innovation, offering a myriad of features tailored to meet the demands of modern electronic systems. Through meticulous examination of its technical documentation, enthusiasts and engineers alike can glean insights into the. This document summarizes the specifications of LITE-ON's LTV-816 series photocouplers.



Article Content

May 04, 2026

Understanding Phototransistor Optocouplers

Understanding Phototransistor Optocouplers An optocoupler, also known as photo-coupler or opto-isolator, is a

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Optocoupler Construction, Working, and important Parameters

Construction The input circuit of an Optocoupler or optical coupler comprises an atypical light-emitting diode (LED)

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Directional Coupler

Directional coupler is a basic function in an integrated photonic circuit, in which energy of the optical signal is coupled

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EL816 DATA SHEET

The EL816 series contains a infrared emitting diode optically coupled to a phototransistor. It is packaged in a 4-pin DIP package and

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4 PIN DIP PHOTOTRANSISTOR PHOTOCOUPLER EL816 Series

They are packaged in a 4-pin DIP package and available in wide-lead spacing and SMD option. *1 AC for 1 minute, R.H.= 40 ~ 60%

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Guidelines for Reading an Optocoupler Datasheet

The electrical characteristics table in figure 5 provides information on key parameters for the input side, the output side, and the

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FOD816 Series 4-Pin Phototransistor Optocouplers

Typical Electrical/Optical Characteristic Curves (T A = 25°C Unless otherwise specified.) Fig. 1 Forward Current vs. Ambient

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Scalable and efficient grating couplers on low-index photonic ...

Here we present a flexible strategy for the realization of highly efficient grating couplers on such low-index photonic

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Hybrid (3 dB) couplers

Hybrid couplers are the special case of a four-port directional coupler that is designed for a 3-dB (equal) power split. Hybrids come in

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Explanation of Photocoupler / Optocoupler Specifications

General specifications for various usage environments including absolute maximum ratings and electrical characteristics are

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Presentation

Depending on the dimensioning of the coupling region, any desired fraction of this decoupled field can be recoupled into the other

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Optocoupler Product Selector Guide

Skyworks, through its wholly-owned subsidiary Isolink, provides screened and hermetically sealed high-reliability optocouplers, RF

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All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical

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Magnetic Coupler Parameters Optimization for Electric Vehicle

This article proposes a solution to address the issue of fluctuating coupling coefficients in wireless power transmission for electric

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10 MBd High-Speed Optocoupler Design Guide

A high-speed coupler is a very compact and simplified solution in comparison to the discrete approach. Vishay's 10-Mbd couplers are

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Basic Characteristics and Application Circuit Design of Transistor Couplers

This document outlines the basic characteristics and application design of general-purpose transistor output photocouplers (optical

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All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical

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Design, fabrication, and characterization of Mach-Zehnder ...

In this paper, the effects of physical parameters on the performance of unbalanced Mach-Zehnder interferometers

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Lecture13_228B_W06_Final.ppt

Lecture 13: Optical Combiners, Filters, Multiplexers, AWGRs and Switches Optical Couplers Directional Coupler Input 1 Input 2 I

Oct 16, 2025

4 PIN DIP PHOTOTRANSISTOR PHOTOCOUPLER

110°C Compact small outli. approved (No. 1143607) Description The EL816 series of devices each consist of an infrared emitting

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4 PIN DIP PHOTOTRANSISTOR PHOTOCOUPLER EL816 Series

Pb free and RoHS compliant. The EL816 series of devices each consist of an infrared emitting diodes, optically coupled to a

Jun 30, 2026

Directional couplers — CamachoLab Photonics Bootcamp

Directional couplers # Directional couplers are two waveguides with a small gap between them that “couple,” or transfer, light from

Nov 23, 2025

Key parameters of couplers for four higher order modes.

Download scientific diagram | Key parameters of couplers for four higher order modes. from publication: 96-Channel on-chip

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What should you know when specifying quick couplings?

Pioneer hydraulic quick connect coupler set Q: Why does the price vary so widely with hydraulic quick couplings?

Aug 29, 2025

EL816 Series 4-Pin DIP Phototransistor Photocoupler Datasheet

These are the most critical parameters for application design, defining the relationship between input current and output current.

Oct 04, 2025

Grating Couplers on Silicon Photonics: Design Principles ...

One important issue of silicon photonics that comes with its high integration density is an interface between its high

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Robust Characterization of Integrated Photonics Directional Couplers

Consequently, the variability in coupling location and efficiency can greatly influence measurement accuracy, making

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Fused Couplers | OEM Optical Communication Solutions | Corning

Corning's optical couplers are fused fiber branching devices that split off a portion of light to allow for optical monitoring and

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816C Marking, 816C Datasheet, 816C PDF

Marking: 816C. Part #: 140816141310. Datasheet: 1MbKb/12P. Manufacturer: Wurth Elektronik GmbH & Co. KG, Germany..

May 09, 2026

UvA-DARE (Digital Academic Repository)

Integrated-optics directional couplers for optical coherence tomography We simulated, fabricated, and characterized symmetric 2x2

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The S-parameters in dB of the CPW rat race coupler.

Download scientific diagram | The S-parameters in dB of the CPW rat race coupler.
from publication: Miniaturized CPW Rat-Race

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Optimization of polishing parameters for optical coupler ...

The rapid development in areas such as fiber-optic communication, fiber lasers, and high power transmission has

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datasheet

Using a Optocoupler - Determining Parameters Ask Question Asked 6 years, 8 months ago Modified 6 years, 8 months

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Directional Couplers: Principles and Applications

Learn about directional couplers, their parameters (directivity, coupling factor, isolation, insertion loss) and

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