Replacing the surface mount optocoupler

Overview

Learn how to easily replace SMD optocouplers with this step-by-step guide. We'll cover ever SMD electronic component soldering and desoldering training and lessons. Learn how to easily. Whether you're a hobbyist or a professional technician, replacing surface mount components on a PCB can seem daunting. In this guide, we'll walk you through. Galvanic isolation, generally referred to as isolation, is a means of preventing DC and unwanted AC currents and avoiding a direct conduction path between two sections of a system. Isolation performs these actions while still allowing signal transfer, power transfer, or both, between those two. Skyworks is the leading global supplier of high performance, high quality and radiation tolerant optoelectronic components for aerospace, defense, medical, extreme industrial and high-reliability markets and applications. With the Metcal MX System by OK International, these tasks can all be accomplished using one RM3E Soldering/Rework Handpiece (some large, four-sided. The Si87xx family can be used as a pin-compatible optocoupler upgrade in existing systems or as a design-in component for new product designs.

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Article Content

Jun 26, 2026

SMD Rework Guide: How to Remove and Replace SMD Components

SMD rework is the controlled process of removing, repairing, or replacing Surface Mount Devices (SMDs) using localized heat while

Feb 13, 2026

Improve Your System Performance by Replacing Optocouplers with

Digital isolators are fast replacing optocouplers across applications, and TI digital isolators are one of the high-performance isolators

May 17, 2026

OLS010: Phototransistor Hermetic Surface Mount Optocoupler

Each optocoupler consists of an LED and N-P-N silicon phototransistor that is electrically isolated, but optically coupled inside a

Mar 03, 2026

SMD Component Replacement: A Step by Step Rework Tutorial

With the right tools, a proper rework station setup, and this step-by-step tutorial, you can confidently tackle surface

Dec 28, 2025

Surface Mount Optocoupler for Eagle

Hi, as always I must start off by saying I''m new at this. I was just wondering if it is normal to need to make custom

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Optocoupler Replacement with Digital Isolators

Why and when you should replace optocouplers with digital isolators Digital Isolator basics RDI''s expertise in digital isolator design,

Nov 09, 2025

SMD Component Replacement: A Step by Step Rework Tutorial

Conclusion: Master the SMD Rework Process with Practice Replacing small components on PCBs through the SMD

Mar 15, 2026

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How to Replace Optocouplers with Digital Isolators in Standard ...

This article compares common optocoupler circuits to digital isolator circuits used to isolate common digital interfaces and

Feb 16, 2026

opto isolator

I am working on a project where I need to have some sort isolation from a machine sending out highs and lows of

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Never Struggle Again: Step-by-Step Guide to Replacing SMD

Learn how to easily replace SMD optocouplers with this step-by-step guide. We''ll cover everything from removing the

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Skyworks | Products

Skyworks is the leading global supplier of high performance, high quality and radiation tolerant optoelectronic components for

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Surface Mount Optocouplers

Isolation, Si87xx Automotive Optocoupler Replacement Isolators -- Si8710AC-AS from Skyworks Solutions, Inc. Automotive

Aug 09, 2025

How to remove surface mount IC, SMD IC replacement, Desoldering

SMD IC replacement: How to remove surface mount IC | SMD IC replacement | SMD Soldering & Desoldering-

Sep 03, 2025

Converting from Surface to Leaded Capacitors

The following is a rough guide to removing, cleaning up, and replacing surface mount capacitors with traditional

Oct 21, 2025

o surfAce-mounT opTocoupler pAckAges

Optocoupler Packages Vishay Semiconductors offers the industry''s broadest selection of surface-mount optocoupler

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May 03, 2026

Skyworks | Products Details

The OLS249 consists of an LED that is optically coupled to an N-P-N silicon phototransistor, which is mounted and coupled in a

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Surface Mount Rework Techniques

Abstract This Technical Note outlines, step by step, the easiest ways to remove and replace surface mounted devices, using the

Dec 30, 2025

TLP781 surface-mount optocoupler SOP-4

TLP781 Surface-Mount Optocoupler SOP-4 is a standard, highly reliable photocoupler that provides critical electrical isolation

Nov 02, 2025

The Ultimate Optocouplers Guide: Isolation, Types, and Applications

Our complete optocouplers guide covers what they are, how they work, the different types, and key applications.

Jun 13, 2026

Opto-isolator

Schematic diagram of an opto-isolator showing source of light (LED) on the left, dielectric barrier in the center, and sensor

Mar 06, 2026

AN729: Replacing Traditional Optocouplers with Si87xx Digital Isolators

The Si87xx digital optocoupler upgrade is the first and only enhanced optocoupler replacement technology available. This device

Feb 07, 2026

Optocoupler Tutorial for Beginners

An optocoupler uses light to transfer signals from one circuit over to another. This guide shows you how they work

Jun 26, 2026

Never Struggle Again: Step-by-Step Guide to Replacing SMD

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We''ll cover everything from removing the old optocoupler to soldering in the new one. No more struggling with this

Aug 25, 2025

Optocouplers Desig

Insulation Defined The electrical insulating capabil-ity of an optocoupler, sometimes referred to as withstand voltage, is determined

Nov 06, 2025

Skyworks | Products Details

OLS049 Radiation Tolerant, Phototransistor Hermetic Surface Mount Optocoupler The OLS049 is specifically designed for high

Contact Us

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