

Optocoupler Drive 1-CH 5.5V 1500V Automotive 8-Pin SOIC N Tube



Images are for reference only

[Inquiry](#)

Manufacturer: [Skyworks Solutions, Inc](#)

Package/Case: SOP8

Product Type: Optoelectronics

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

Si87xx devices isolate high-speed digital signals and offer performance, reliability, and flexibility advantages unavailable with competing optocoupler products. Si87xx products are based on our proprietary CMOS isolation technology for low-power and high-speed operation, providing longer service life and dramatically higher reliability compared to traditional optocouplers. Si87xx isolators are resistant to the wear-out effects found in optocouplers, which degrade performance with increasing temperature, forward current, and device age.

Si87xx isolators are pin-compatible, single-channel, drop-in optocoupler replacements with data rates up to 15 Mbps. Ordering options include open collector or push-pull outputs with and without integrated pull-up resistor and output enable pin.

Key Features

Pin-compatible, drop-in upgrades for popular high-speed digital optocouplers

Performance and reliability advantages vs. optocouplers

Resistant to temperature, age, and forward current effects

10x lower FIT rate for longer service life

Higher common-mode transient immunity: >50 kV/μs typical

Lower power and forward input diode current

PCB footprint compatible with optocoupler packaging

Wide range of product options

Resistant to temperature, age, and forward current effects

10x lower FIT rate for longer service life

Higher common-mode transient immunity: >50 kV/μs typical

Lower power and forward input diode current

Diode emulator input

3 to 30 V open collector output

Propagation delay 30 ns typical

Data rates from dc to 15 Mbps

3.75 and 5 kV reinforced isolation

UL, CSA, and VDE certifications

Wide operating temperature range -40 to +125 °C

RoHS-compliant packages

Recommended For You

SI8235BB-C-IS1

Skyworks Solutions, Inc

SOP16

SI8220BD-A-IS

Skyworks Solutions, Inc

SOP16

SI3471A-A01-IM

Skyworks Solutions, Inc

38-QFN

SI8233BB-D-IS1R

Skyworks Solutions, Inc

SOP16

SI8233BD-D-ISR

Skyworks Solutions, Inc

SOP16

SI8233BB-C-IS

Skyworks Solutions, Inc

SOP16

SI8235AB-D-IMR

Skyworks Solutions, Inc

LGA14

SI8233BB-C-IS1

Skyworks Solutions, Inc

SOP16

SI8233BD-C-IS

Skyworks Solutions, Inc

SOP16

SI8751AB-ISR

Skyworks Solutions, Inc

SOP8

SI3473B-A01-IM

Skyworks Solutions, Inc

QFN

SI3462-E01-GM

Skyworks Solutions, Inc

QFN11

SI8946AD-IS4

Skyworks Solutions, Inc

Tube

SI3472B-A01-IM

Skyworks Solutions, Inc

38-QFN5x7

SI8947BD-IS4

Skyworks Solutions, Inc

8-SOIC