

ALLNET 4duino IR Receiver / Infrarot Empfänger 38KHz

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This IR demodulator from Vishay is a general-purpose receiver for IR-based remote-control projects. It is intended as detector for data formats that are modulated at 38 kHz and have at least 10 cycles/burst; popular IR-codes that meet these requirements are NEC, Sharp, and r-step (our Mini IR Remote Control uses NEC encoding, so it works well with the TSOP38438). The module's output signal can be directly connected to a microcontroller; no additional external components are required. See the TSOP38438 datasheet (132k pdf) for more information.

For a similar IR detector that is tuned for a 56 kHz carrier frequency, see the Vishay TSOP34156.

Modulated IR detector comparison

Part TSOP34156 TSOP38438 TSSP58P38 TSSP58038

Intended function IR remote control brightness/proximity sensing predictable modulated IR presence sensing

Modulation frequency 56 kHz 38 kHz 38 kHz 38 kHz

Gain (sensitivity) automatic but inaccessible automatic, predictable fixed high gain

Output binary (data) analog (pulse width) binary (on/off)

Update rate a few kHz a few Hz a few kHz

Specifications

Operating Voltage: 2.5 V to 5.5 V

Carrier Frequency: 38 kHz

Package: Through-hole with 0.1" lead spacin