

# INFRARED REMOTE CONTROL TESTER

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Here's a simple, low-cost, and easy-to-construct infrared remote control tester. The tester is built around an easily available infrared receiver mod-

and as such driver transistor T1 is in cut-off state. Whenever the IR receiver module receives a valid (modulated) infrared signal, its data output pin goes low in synchronism with the received infrared bursts. As a result, transistor T1 conducts during

negative pulse period and the LED blinks to indicate reception of signals from the remote

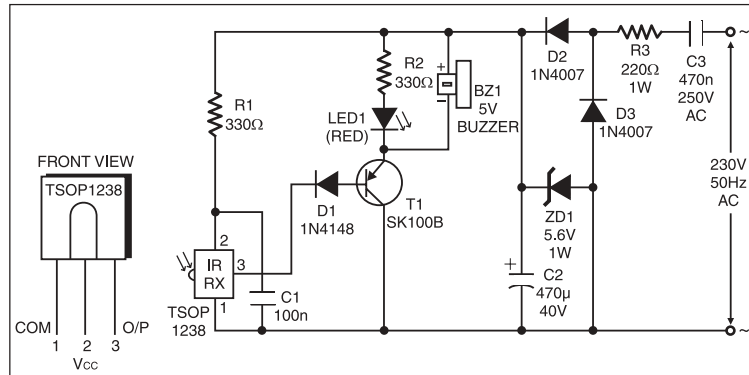


Fig. 1: Schematic diagram of IR remote control tester

ule (TSOP 1238).

Normally, data output pin 3 of the IR receiver module is at a high level (5 volts)

connected at the collector of transistor T1 for audio indication.

The 5V DC for energising the circuit is

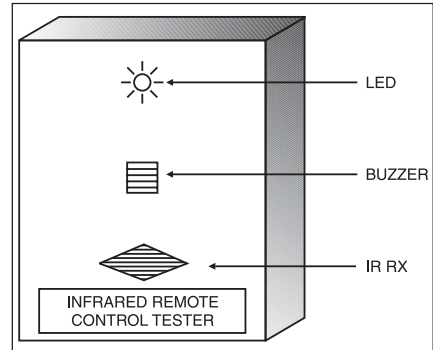


Fig. 2: Proposed enclosure with front-panel layout

directly derived from the 230V AC mains supply. Unlike the conventional resistive voltage divider, a capacitive potential divider is used here, which does not radiate any heat and makes the tester quite compact. Another advantage of this tester is no false triggering due to the ambient light or electronic ballast-operated tubelights. A suggested enclosure for the circuit is shown in Fig. 2.