IR Receiver Module

A new IR receiver module featuring enhanced immunity against lisght disturbances was announced by Vishay Intertechnology. The new TSOP7000, which combines a photo detector and preamplifier in a single package, features a 455 kHz carrier frequency and is optimized for use in multimedia end products and applications, including wireless keyboard, mice, and remote controls.
The new Vishay Telefunken receiver can handle up to 20 kbits/s at a transmission distance of up to 20 meters. Featuring an internal band filter, the TSOP7000 is optimized for PCM frequency and additionally offers TLL and CMOS compatibility. Power consumption is 10 mW for the TSOP7000. It can operate from supply voltages from 2.7 V to 5.5 V. Rated for operation at temperatures from &#150 25 &#176 C to 85 &#176 C, the device provides an output current of 5 mA with a demodulated output signa that cn be directly decoded by a microprocessor.
The TSOP7000 measures 6 mm by 8.25 mm by 5.6 mm. The device is quick to respond, with a receiver start-up time of 50 &#956s and a receiver data delay time of 18 &#956s. The TSOP7000 also features a high duty cycle of 45% with short burst operation (N &gt 10). Among the device's key features is an internal automatic gain control that provides increased immunity against the light disturbances frequently caused by energy-saving lamps.
With the TSOP7000, Vishay offers a multi-functional IR receiver module designed specifically for the rapidly expanding multimedia market. It will be a solution for designers who need a high-speed, space-saving device for multimedia systems in business and the home.

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