Upgrade to TSOP2xxx, TSOP4xxx, TSOP57xxx, TSOP6xxx, and TSOP77xxx Series IR Receivers Reduces Current Consumption, Improves Robustness Against ESD and Direct Sunlight

Product Benefits:
- 50% lower current consumption than the original receivers — down to 0.35 mA typical — over a wider voltage supply range from 2.0 V to 5.5 V
- High ESD withstand capabilities to 12 kV (human-body model) provide increased reliability
- Provide immunity against disturbances such as IR emissions from CFL lamps and RF emissions from on-board Wi-Fi antennas
- To simplify designs, the receivers feature a photodetector, preamplifier circuit, and IR filter in a single epoxy Mold (TSOP2xxx and TSOP4xxx), Belobog (TSOP57xxx), Panhead (TSOP6xxx), or Heimdall (TSOP77xxx) package
- Available with different automatic gain control (AGC) versions for long or short burst codes
- Excellent immunity to ripple noise
- RoHS-compliant, halogen-free, and Vishay Green

Market Applications:
- IR remote control
- Consumer televisions, set-top boxes (STBs), audio and gaming systems, air conditioners, and other appliances
- Industrial automation controls, lighting systems, and more

The News:
Vishay Intertechnology announces that the company has upgraded its TSOP2xxx, TSOP4xxx, TSOP57xxx, TSOP6xxx, and TSOP77xxx series infrared (IR) receiver modules for IR remote control applications with a new Cyllene 2 IC. Designed in-house to ensure long term product availability and reduced lead times, the new IC allows designers to achieve higher performance with drastically reduced current consumption over a wider voltage supply, while offering improved robustness against ESD and direct sunlight.
- Offer designers plug and play replacements for the original receiver modules
- The devices’ lower current consumption and wider voltage supply range increase battery life in mobile consumer electronics, such as robotic vacuum cleaners
- The receivers’ increased robustness under direct sunlight results in improved performance for outdoor applications like garage door light barriers
The Key Specifications:

- Typical supply current: 0.35 mA
- Voltage supply range: 2.0 V to 5.5 V
- ESD withstand: 12 kV (human-body model)
- Single epoxy package
  - Mold (TSOP2xxx and TSOP4xxx)
  - Belobog (TSOP57xxx)
  - Panhead (TSOP6xxx)
  - Heimdall (TSOP77xxx)
- Carrier frequencies: 30 kHz to 56 kHz

Availability:
Samples and production quantities of the upgraded IR receiver modules are available now, with lead times of eight weeks.

To access the product datasheets on the Vishay Website, go to
http://www.vishay.com/ppg?82459 (TSOP22.., TSOP24.., TSOP48.., TSOP44..)
http://www.vishay.com/ppg?82463 (TSOP62.., TSOP64..)
http://www.vishay.com/ppg?82434 (TSOP572.., TSOP574..)
http://www.vishay.com/ppg?82471 (TSOP772.., TSOP774..)

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