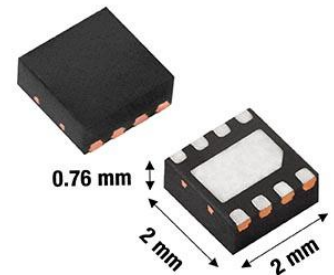


Upgraded VSOP383xx Series Preamplifier Circuits for IR Remote Control Applications Feature New Cyllene 2 IC, Offer Wider Voltage Range, Enhanced Dark-Ambient Sensitivity, and Improved Performance Under Strong DC Light and Wi-Fi Noise

Product Benefits:

- Feature new Cyllene 2 IC
- Offered in the space-saving 2 mm by 2 mm by 0.76 mm QFN package
- Low current consumption over a wide supply voltage range from 2.0 V to 5.5 V
 - Increases battery life in mobile devices
- High dark-ambient sensitivity
- Offer increased robustness against:
 - Disturbances from different kinds of lamps
 - EMI from nearby Wi-Fi antennas operating at 2.4 GHz and 5 GHz
 - Strong DC light
- High immunity against ripple noise on the supply voltage
- RoHS-compliant, halogen-free, and Vishay Green



Market Applications:

- IR remote control in televisions, soundbars, video game systems, set-top boxes (STBs), audio equipment, and more

The News:

Vishay Intertechnology announces that it has upgraded its VSOP383xx series of preamplifier circuits for infrared (IR) remote control applications in consumer products with the new Cyllene 2 IC. Offered in the 2 mm by 2 mm by 0.76 mm QFN package, the enhanced solutions provide drop-in, plug and play replacements for existing devices in the series, while offering a wider supply voltage range from 2.0 V to 5.5 V, 37 % higher dark-ambient sensitivity, and improved performance under strong DC light and Wi-Fi noise.

- By upgrading the VSOP383xx series with Vishay's latest in-house IC technology, the company is assuring the long term availability of the products, with reduced lead times, for its customers. And as drop-in replacements for existing solutions — with no mechanical differences and similar electrical characteristics — the devices help save costs by eliminating the need for PCB redesigns
- With less susceptibility to EMI from 2.4 GHz and 5 GHz frequencies – which can cause unwanted output pulses – the preamplifier circuits can be placed near Wi-Fi antennas for increased design flexibility, while their robustness under bright sunlight enables outdoor use

The Key Specifications:



NEW PRODUCT INFORMATION



Product Group: Vishay Semiconductors, IR Receivers / **March** 2025

- Supply voltage range: 2.0 V to 5.5 V
- Carrier frequencies:
 - 36 kHz (VSOP38336)
 - 38 kHz (VSOP38338)

Availability:

Samples and production quantities of the upgraded preamplifier circuits are available now, with lead times of four to six weeks.

To access the product datasheet on the Vishay Website, go to <http://www.vishay.com/ppg?82748> (VSOP383..)

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