

New Comparators Target High Volume Medical, Industrial & ATE Applications



Hittite Microwave Corporation has extended its high performance Comparator product line with the launch of three new products in compact, plastic SMT packages. The HMC674LP3E, HMC675LP3E and the HMC676LP3E provide lower power consumption compared with traditional comparator solution and are optimized for high performance, high volume applications.

A unique combination of 10 GHz input bandwidth, low propagation delay dispersion, low jitter, and high input common-mode range, make these comparators ideal for medical, industrial, ATE, high speed instrumentation and communications applications.

The HMC674LP3E, HMC675LP3E and the HMC676LP3E are monolithic comparators which feature 10 GHz input bandwidth, level-latched inputs and reduced swing PECL, CML and ECL output drivers respectively. The HMC674LP3E, HMC675LP3E and the HMC676LP3E comparators offer less than 100 ps propagation delay, and support 60 ps minimum pulse width with only 0.2 ps rms random jitter. These devices also feature differential latch control and programmable hysteresis, and they may be configured to operate in either latch mode, or as tracking comparators.

With overdrive and slew rate dispersion of 10 ps and power consumption of less than 140 mW, these comparators are also ideal for digital receivers, clock and data restoration circuits, and pulse spectroscopy.

Housed in compact plastic RoHS compliant 3x3 mm SMT packages and specified for operation from -40°C to +85 °C, the HMC674LP3E, HMC675LP3E and the HMC676LP3E complement the previously released HMC674LC3C, HMC675LC3C and HMC676LC3C level-latched comparators, and are pin-for-pin compatible.

Samples and evaluation PC boards for all SMT packaged products are available from stock and can be ordered via the company's e-commerce site or via direct purchase order.

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