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**QP Semiconductor Announces the End of EOL for LM710***Re-Engineered QP710 to Replace Industry Work Horse Voltage Comparator*

**SANTA CLARA, Calif. – January 21, 2008** – QP Semiconductor today announced that it has completed the design and fabrication of the QP710, a socket replacement part for the LM710 Differential Voltage Comparator. The company has manufactured the device in a modern fab to achieve the same form, fit, function, and overall performance as the original LM710 bipolar device. The company has received DSCC listing (see Vendor part number QP710BxA or military part number M38510/10301BxA) and offers four hermetic package types: the standard 8-pin metal can, a ceramic 14-lead DIP, a 20-pin leadless chip carrier, and a ceramic 10-lead flat pack.

According to John O'Boyle, new business development director for QP Semiconductor, "We recently became aware of a serious shortage of these voltage comparators and of a large number of poor quality, imitation parts being marketed to fill the demand. Therefore we decided to step in with a high-quality IC, newly designed and manufactured to the same level as the original." He continued, "We are confident our customers will appreciate the difference. And we are happy to be able to provide a solution." O'Boyle further added, "We are releasing this as a device compliant to Mil Spec 38510/883 and also list it on our web site."

**Enabling Continuation of Present Application Solutions**

The QP710 is a high-speed voltage comparator. Applications include use as an accurate, low-level digital level sensor, the device can also be designed in as a replacement for a few operational amplifiers used as comparators, especially where speed is the principal concern. The design is the same as the original with a differential input and a single-ended output. The saturated output levels are compatible with many types of "classic" integrated logic.

The bipolar QP710 device is built on a single silicon chip in a modern bipolar fab. The proven process insures low offset and thermal drift. The use of a minimum number of stages makes the circuit much faster than many other types of operational amplifiers in saturating comparator applications. The modern design is easily faster than the traditional design such that minority-carrier lifetime control using gold doping is not necessary.

The new QP710 is useful in many traditional applications including pulse height discriminators, voltage comparators and in high-speed A/D converters or as go, no-go detectors in automatic test equipment. They may also be used in older digital systems to perform as adjustable-threshold line receivers or as an interface between different logic types.

**Pricing and Availability**

The QP710BxA or SMD part number M38510/10301BxA is now available. Interested parties, please contact us at [www.qpsemi.com](http://www.qpsemi.com).

**About QP Semiconductor**

QP Semiconductor is a privately held California company founded in 1985. The company today is the largest fabless semiconductor firm serving the military, aerospace and high reliability industries.

During the past decade, the company has evolved into the leading semiconductor company that designs, re-engineers and provides a full range of manufacturing capabilities to extend the life of classic ICs for a host of mission-critical programs. The company focuses on providing replacement hermetic parts for DMS (Diminished Manufacturing Sources) and EOL (End of Life) products.

QP Semiconductor ranks today as one of the largest fabless manufacturers of high-reliability hermetic ICs for military & aerospace systems. The company provides over 11% of all QML part numbers listed by the Defense Supply Center, Columbus (DSCC).

QP Semiconductor is headquartered in Santa Clara, California with sales representation throughout the world. For more information, please visit [www.qpsemi.com](http://www.qpsemi.com).

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