



A periodic newsletter of the JPL/OSMS Assurance Technology Program Office (ATPO), NASA EEE Parts Assurance Group (NEPAG), and Section 514, of the Jet Propulsion Laboratory.

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### Maxwell EEPROM Failure Update

Our February issue mentioned the failure of Maxwell 79C2040 EEPROMs being used on a JPL project. The Tiger Team has completed its investigation and the final report is imminent. All future programs must use parts fabricated after Oct'07 when Maxwell implemented process changes and screening. For more information contact Dennis Funaiolo x48556.

### GIDEP Advisory – Linear Mode Application Power MOSFET

GIDEP Advisory #FV5-P-09-01A lists power MOSFETS for which International Rectifier has updated data sheet safe operating area curves to include a DC curve. Additional parts SOA curves will be updated and maintained in the IR website's Alerts & Notifications Section. Contact Dorice Odell x31057.

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### ITT Canon 40M38298 Connectors

These ICT-style KPD connectors are miniature circulars used for pyrotechnical device connections. There are dimensional issues possibly causing the locking ring to come loose and the connectors to separate. Contact Pat Dillon x48122.

### NESC Low-Voltage Ceramic Caps

NASA Engineering and Safety Center has assembled a highly experienced team to address precautions necessary to minimize low-volt ceramic capacitor failures. The new team conducts weekly telecons, reviews research and test methods, and surveys users and manufacturers. Contact [Ron Herin](#).

### NESC Connector Task Update

Another NASA Engineering and Safety Center team is reviewing NASA's experience with connectors, focusing on where problems arise and determining how connectors are selected and used. A report will be issued within a few weeks. Contact Pat Dillon x48122.

### Xilinx Virtex Update

Xilinx is pursuing a QML 'V' qualification for its Virtex 2-3000 FPGA. On-going discussions are evaluating the Virtex-4 for space applications. Contact Ramin Roosta x47385.

## Quality Leadership Forum

The Quality Leadership Forum is (QLF) a government-industry group. Their objectives are to integrate quality approaches, standardize quality practices, improve the use of quality resources and processes, communicate lessons learned and share best practices and the latest quality standardization information. A frequent topic at QLF meetings is awareness and detection of counterfeit parts. At the March QLF, the Jet Propulsion Laboratory held a break-out session on counterfeit parts detection and prevention with hands-on inspection training. The next QLF meeting will take place at JPL on 29 - 30Sep09.

## Joint Audit Planning Committee

The Joint Audit Planning Committee (JAPC) is a NASA initiative comprised of representatives from NASA, Missile Defense Agency, National Reconnaissance Office, Defense Contract Management Agency and the aerospace industry. JAPC's responsibility is to plan, coordinate, and perform joint audits on NASA's supplier base. Its goal is to minimize the number of individual quality management system audits (QMS) prime contractors perform on sub-tier suppliers, thus reducing the burden on JAPC member organization suppliers. Under this program, independent distributors are monitored to ensure their parts are Original Component Manufacturer (OEM) and stocked under acceptable conditions. The next JAPC will be held at JPL on 28Sep09 along with the Quality Leadership Forum. Contact [Tony Gutierrez](#) or [Diana Shellman](#).

## EEE Parts Related Conferences

**SEE Symposium** – The 18<sup>th</sup> Annual [Single Event Effects Symposium](#) was held 3Apr09

in La Jolla, CA. The symposium provides a forum for the presentation and discussion of recent work in single event effects. Contact Steve McClure x40482.

**HEART Conference** – [Hardened Electronics and Radiation Technology Conference](#) took place 3Mar09.

**GOMACTech 09** – [Government Microcircuit Applications & Critical Technology Conference](#) was held 16Mar09.

**IRPS** – [IEEE International Reliability Physics Symposium](#) met on 26Apr09

## Manufacturer's News:

In Apr'09 Rochester Electronics, a QML manufacturer, acquired National Semiconductor's Space Logic Product Line which includes 1003XX ECL, 54LS, 54F, 54AC, 54ACT, 54ACTQ microcircuit families.

## Contacts

### NEPAG

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**Previous Issues:** EEE Parts Bulletin Archive to be listed in next issue.