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FOR IMMEDIATE RELEASE

## **EMULATION TECHNOLOGY DEBUTS OPEN-TOP QFN/MLF SOCKETS**

*Sockets' open-top design makes testing & development easier on QFN/MLF packaged devices*

**SANTA CLARA, Calif, October 26, 2004**—Emulation Technology (ET), debuted today their new open-top testing & development sockets for QFN/MLF (Quad Flat Non-Leaded/Micro Lead-Frame) packaged devices. ET's new open-top sockets ensure safe and easy access to the DUT. ET's new sockets are available in body sizes 3X3mm to 15X15mm, pin counts from 8-pin to 84-pin, and lead pitches of 0.50mm, 0.65mm, 0.80mm, 1.27mm.

### **A PACKAGE SOLUTION**

With the escalating number of consumer products using smaller devices, designers and developers have to work with space constraints, heat and power limitations. Using a smaller packaged device is a solution, but the QFN/MLF packaged device ensures that all of the constraints are met. QFN/MLF packaged devices are smaller and thinner than other similarly leaded packages, the lead frame on the bottom of the package provides excellent thermal performance, and the elimination of gullwing leads combined with shortened wire lengths decreases self-inductance.

### **HOW IT WORKS**

The Thru-hole socket is easily mounted to the PCB using traditional soldering methods. Once connected, the user can insert and remove the device as needed for design or test. The socket is easily actuated by pressing down on the socket frame, wherein the miniature clamps are triggered inside the socket, safely holding the device in place. To remove the device, press down on the socket frame and retrieve it from the socket bed. In most cases, using a vacuum pump is the safest means of moving the device.

### **FEATURES & BENEFITS**

- Low inductance with a small outline.
- Open-top provides convenient loading and unloading of device.
- Operating Temperature: -50° C to +150° C
- Contact force: 30 +/- 5 gf
- Life Cycles: 5,000 Mechanical Cycles
- Inductance: 3 nH
- Contact Resistance: <50 Ohms
- Inductance: 3 nH

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## Open-Top Sockets

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### APPLICATIONS

In addition to meeting the QFN/MLF package requirements for testing (heat and power) ET's Open-top sockets are ideal for applications requiring a socket that will not take up too much space on the PCB. Ideal applications include test, burn-in, programming and circuit test and verification.

### PRICING AND AVAILABILITY

Pricing for the Open-top sockets, part number S-MLF-00-028-A1, starts at \$143.00, in one-piece quantities; delivery is stock to 3 days.

Emulation Technology also offers a variety of test products designed for the QFN/MLF package including the 3-in-1 Adapter System™ and the QFN/MLF Programming Adapter.

### EMULATION TECHNOLOGY

ET is celebrating its 21<sup>st</sup> year of providing quality interconnect solutions for design and development engineers. The company's experience helping engineers create quality products and reducing costs associated with design, development, and time to market has made it the leader in this industry. Emulation Technology has more than 50,000 customers and operations in 23 countries worldwide. The company is privately held and is headquartered at 2344 Walsh Avenue, Bldg. F, Santa Clara, California 95051.

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