

Press Release – December 17, 2001

True Circuits, Inc. Announces New Family of Phase-Locked Loops

LOS ALTOS, California – December 17, 2001 – True Circuits, Inc. (TCI), a developer and marketer of innovative high-speed analog and digital integrated circuits (ICs), announced today the immediate availability of a new family of standardized Phase-Locked Loop (PLL) designs. These designs span nearly all performance points and features typically requested by ASIC designers. They are available in a range of frequencies, multiplication factors and other options in 0.25um CMOS through the leading-edge processes of TI, TSMC and UMC. Licensing terms are very attractive and do not require royalty payments.

"For years we have been providing fully customized PLLs to the world's most demanding customers. Recognizing that many of our customers do not require this custom design service, we decided to find a way to bring the same high-quality, leading-edge designs to customers with less specialized needs at reduced costs", said John Maneatis, President of True Circuits. "By carefully analyzing our mainstream customers' needs for PLLs, we were able to meet these needs by developing a standardized set of designs that cover such important requirements as low-jitter, versatility and high process-tolerance at substantially reduced cost and faster turnaround times."

"We have altered our entire business model and product line to accommodate the design and business interests of our valued customers", said Stephen Maneatis, Chief Executive Officer of True Circuits. "We believe we have in place a product line and licensing arrangement that will enable our customers to obtain premium quality PLL designs quickly, easily and at reasonable cost with the highest confidence that their chip designs will work on the first silicon."

About True Circuits, Inc.

True Circuits develops and markets a broad range of PLLs and other mixed-signal designs for ICs. The company was founded in 1998 by Dr. John Maneatis, world renowned for his innovative PLL designs. TCI built its reputation on providing quality full-custom PLLs and other mixed-signal designs to the world's most demanding customers and continues to provide this custom service to those who require it. In addition, TCI's robust design and simulation tools, and their close association with the world's leading fabrication vendors, allows it to produce new and innovative designs in advanced processes quickly and reliably. True Circuits is located at 4962 El Camino Real, Suite 206, Los Altos, CA 94022 and on the web at www.truecircuits.com.

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