

# NEWS RELEASE



## FOR IMMEDIATE RELEASE

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## **PE4259 RF CMOS SPDT Switch Extends Performance To 3 GHz Single Control Input, 2kV HBM ESD Ideal for Wireless Applications**

**San Diego, CALIFORNIA, March 31, 2004** -- Peregrine Semiconductor Corporation, a leading supplier of mixed-signal communications ICs, today introduced the world's highest performance, general use RF CMOS SPDT switch. The new PE4259 extends performance to 3 GHz making it an optimal solution for any wireless application that can benefit from the advantages of RF CMOS.

The PE4259 RF switch provides many advances over competing technology including a single control input, high ESD tolerance (2 kV HBM), low insertion loss (0.3 dB, 1 GHz), high IP3 (60 dBm, 2 GHz) and isolation (32 dB, 1 GHz). The device is constructed using Peregrine's patented UTSi™ (Ultra- Thin-Silicon) silicon-on-sapphire technology which reduces up to five blocking capacitors and a control line compared to a similar GaAs device.

"The PE4259 enables customers to reduce part count, alleviate ESD concerns and simplify their design, inevitably leading to a higher performing, lower cost system" said Jim Cable, CEO of Peregrine Semiconductor. "Our early adopters confirm that the PE4259 makes their design work easier and shortens time to market. Several have since entered volume production."

The PE4259 RF switch is designed to cover a broad range of applications from DC

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through 3.0 GHz. This reflective switch integrates on-board CMOS control logic with a low voltage CMOS-compatible control interface, and can be controlled using either single-pin or complementary control inputs. An insertion loss of 0.3 dB at 1GHz and 0.45 at 2 GHz are typical. Using a nominal +2.3-3.0 volt power supply, a typical input 1 dB compression point of +34 dBm can be achieved. Products samples, unit pricing and volume production available now through Peregrine and its worldwide distribution partner, Richardson Electronics.

## **About UTSi™ CMOS Silicon-On-Sapphire (SOS) Technology**

UTSi™ CMOS is a proprietary, patented variation of silicon-on-insulator (SOI) technology. It is the first commercially qualified use of sapphire substrates with high yields and competitive costs. UTSi CMOS combines high-performance RF, mixed-signal, passive elements, nonvolatile memory and digital functions on a single device. Significant performance advantages exist over competing mixed-signal processes such as GaAs, SiGe BiCMOS and bulk silicon CMOS in applications where RF performance, low power and integration are paramount. Additionally, because UTSi SOS is fabricated in standard high-volume CMOS facilities, Peregrine products benefit from the fundamental cost effectiveness and high yields, scalability and integration of CMOS, while achieving the performance of SiGe and GaAs. And since sapphire is a near perfect insulator, UTSi SOS products can integrate high-quality passive devices directly into the IC, offering unprecedented levels of RF integration and cost effectiveness.

## **About Peregrine Semiconductor**

Peregrine Semiconductor Corporation designs, manufactures, and markets high-speed communications integrated circuits for the wireless, satellite and broadband cable communications markets. Using its patented Ultra-Thin-Silicon (UTSi™) CMOS process,

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Peregrine has developed a series of radio frequency IC products for high-growth applications, including CDMA and GSM digital cellular, and space and defense radiation hard ICs, and switching functions for video applications. Peregrine, headquartered in San Diego, California; maintains established design centers and operations in Chicago, IL; Aix-en-Provence, France; Sydney, Australia; and Tokyo, Japan. Additional information on Peregrine Semiconductor is available on its web site: [www.peregrine-semi.com](http://www.peregrine-semi.com). Contact Peregrine's worldwide distribution partner, Richardson Electronics (NASDAQ: RELL), for sales information at 1-800-737-6937.

*Peregrine Semiconductor is in no way affiliated with Peregrine Systems, a software company also based in San Diego, California.*

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微波光电部专业代理经销高频、微波、光纤、光电元器件、组件、部件、模块、整机；电磁兼容元器件、材料、设备；微波 CAD、EDA 软件、开发测试仿真工具；微波、光纤仪器仪表。欢迎国外高科技微波、光纤厂商将优秀产品介绍到中国、共同开拓市场。长期大量现货专业批发高频、微波、卫星、光纤、电视、CATV 器件：晶振、VCO、连接器、PIN 开关、变容二极管、开关二极管、低噪晶体管、功率电阻及电容、放大器、功率管、MMIC、混频器、耦合器、功分器、振荡器、合成器、衰减器、滤波器、隔离器、环行器、移相器、调制解调器；光电子器件和组件：红外发射管、红外接收管、光电开关、光敏管、发光二极管和发光二极管组件、半导体激光二极管和激光器组件、光电探测器和光接收组件、光发射接收模块、光纤激光器和光放大器、光调制器、光开关、DWDM 用光发射和接收器件、用户接入系统光收发器件与模块、光纤连接器、光纤跳线/尾纤、光衰减器、光纤适配器、光隔离器、光耦合器、光环行器、光复用器/转换器；无线收发芯片和模组、蓝牙芯片和模组。

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