

PRODUCT RELEASE



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Richardson RFPD Introduces New 75-Ohm, 5-2200 MHz, RF SPDT Switch from Peregrine

High isolation and low insertion loss for CATV applications

January 2, 2014 – LaFox, Illinois: Richardson RFPD, Inc. today announces immediate availability and full design support capabilities for a new absorptive 75-Ohm RF single-pole, double-throw (SPDT) switch from Peregrine Semiconductor Corporation (Peregrine).

The [PE42721](#) is manufactured on Peregrine's UltraCMOS process, a patented variation of silicon-on-insulator (SOI) technology on a sapphire substrate, offering the performance of GaAs with the economy and integration of conventional CMOS. Peregrine's HaRP technology enhancements provide for new RF architectures and unmatched linearity in RF front end solutions.

The [PE42721](#) operates from 5 to 2200 MHz and is highly linear, delivering high isolation and low insertion loss performance. It supports +1.8V control logic and offers high ESD protection. Additionally, no blocking capacitors are required if DC voltage is not present on the RF ports. It is pin-compatible to Peregrine's PE42750 and is designed to support higher data rates in CATV applications, including CATV signal switching and distribution, DTV, multi-tuner digital video recorders (DVRs) and set-top boxes.

Additional key features of the [PE42721](#) include:

- High linearity
 - CTB of -99 dBc
 - CSO better than -105 dBc
- Low insertion loss
 - 0.40 dB @ 220 MHz
 - 0.50 dB @ 870 MHz
 - 0.65 dB @ 2200 MHz
- High isolation
 - 85 dB @ 220 MHz
 - 68 dB @ 870 MHz
 - 53 dB @ 2200 MHz
- ESD performance
 - 3kV HBM on RF pins to GND
 - 2kV HBM on all other pins
 - 1kV CDM on all pins

Richardson RFPD's design advisors provide extensive technical expertise and design-in assistance for Peregrine products, including the [PE42721](#). To find more information, or to order the device today, please visit the [PE42721](#) webpage. Additional information on the device is available by calling 1-800-737-6937

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(within North America); or please find your local sales engineer (worldwide) at [Local Sales Support](#). To learn about additional products from Peregrine, please visit the [Peregrine storefront](#) webpage.



About Richardson RFPD, Inc.:

Richardson RFPD, Inc., an Arrow Electronics company, is a global leader in the RF and wireless communications, power conversion and renewable energy markets. Relationships with the industry's top component suppliers enable Richardson RFPD to meet the total engineering needs of each customer. Whether it's designing components or engineering complete solutions, Richardson RFPD's worldwide design centers and technical sales team provide support for all aspects of customers' go-to-market strategy, from prototype to production. More information is available online at www.richardsonrfpd.com.

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