

# PRODUCT RELEASE



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## Richardson RFPD Introduces Four New DuNE™ DTCs from Peregrine

**Designed to improve RF performance in RFID, military radio, test and measurement, M2M, and wireless infrastructure applications**

**May 23, 2013 – LaFox, Illinois:** Richardson RFPD, Inc. today announces four new DuNE™ technology-enhanced digitally tunable capacitors (DTCs) from Peregrine Semiconductor Corporation (Peregrine).

The new [DTCs](#) are the latest additions to Peregrine industry-leading integrated RF tuning IC portfolio and feature a wide capacitance range of 0.6 to 7.7 pF and support power handling up to 34 dBm into 50 Ohms (30 Vpk RF). They include integrated bias generation, RF filtering and bypassing, control interface, and ESD protection of 2 kV HBM, all on a 2 mm x 2 mm package.

HaRP™ technology enhancements allow for high linearity of IIP3 >+65 dBm at 50 Ohms and harmonic performance of  $2f_0/3f_0 = -40/-40$  dBm @ 34 dBm RF (900 MHz), and 32 dBm RF (1900 MHz). The devices feature direct battery voltage operation, with consistent performance enabled by on-chip voltage regulation. Low supply and standby currents of 140 and 24 microamperes ( $V_{DD} = 2.75V$ ), respectively, help to extend battery life in portable devices. The devices are controlled through the widely-supported 3-wire (SPI-compatible) interface, making it easy to incorporate them into designs.

The new DTCs provide a monolithically integrated impedance tuning solution for demanding RF applications, including radio-frequency identification (RFID), military radio, test and measurement, M2M, and wireless infrastructure.

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

Part	Frequency (MHz)	Bits / States	Capacitance Range (pF)	Tuning Ratio	Vdd Range (V)	Package Type
<a href="#">PE64906</a>	100-3000	5 / 32	0.9-4.6	5.1:1	2.3-4.8	10L QFN
<a href="#">PE64907</a>	100-3000	5 / 32	0.85-2.4	2.82:1	2.3-4.8	10L QFN
<a href="#">PE64908</a>	100-3000	5 / 32	2.15-7.7	3.6:1	2.3-4.8	10L QFN
<a href="#">PE64909</a>	100-3000	4 / 16	0.6-2.35	3.9:1	2.3-4.8	10L QFN

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To find more information, or to receive a quote for purchasing the devices, please visit the [Peregrine Digitally Tunable Capacitor IC](#) webpage. Additional information on the devices is also available by calling 1-800-737-6937 (within North America); or please find your local sales engineer (worldwide) at [Local Sales Support](#). To learn more 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](http://www.richardsonrfpd.com).

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