



OPTICHRON®

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FOR IMMEDIATE RELEASE

**Optichron® Combines Latest DPD IC and GaN Transistors to
Deliver Breakthrough RF Power Amp Performance with 56% PAE
and 50 MHz Bandwidth**

*Application Note Describes 2.14 GHz Single Transmit Path Demonstrating 2G, 3G and 4G
Protocols*

FREMONT, Calif. – May 24, 2010 – Optichron, Inc., the leader in digital nonlinear signal processing, today announced the results of testing the combination of Optichron’s OP6180 Digital Pre-Distortion (DPD) IC with a Doherty Power Amplifier (PA) based on Sumitomo Electric Device Innovations, Inc.’s (SEDI) latest-generation GaN transistors. The result is breakthrough efficiency at over 47 dBm transmitted power. SEDI’s EGN21C105I2D is a 2.14 GHz 105W device featuring wideband performance and exceptional efficiency. Combining high transmit performance with high power added efficiency (PAE), the PA delivers up to 50 MHz of signal bandwidth with PAE up to 56.7% and supports all 2G, 3G and 4G protocols. There will be a live demonstration of the DPD and PA in SEDI booth #1333 at the MTT Microwave Symposium in Anaheim from Tuesday, May 25 through Thursday, May 27, 2010.

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Optichron has published an application note, titled *Advances in Digital Pre-Distortion with GaN Devices*, including performance details and how to use the available tools from Optichron to implement the PA. The application note describes a single 2.14 GHz transmit path combining Optichron's industry-leading OP6180 DPD and SEDI's latest GaN transistors. The combined solution is capable of supporting GSM Class 1 or Class 2, WCDMA and LTE protocols with up to 50 MHz of signal bandwidth and up to 56.7% PAE.

To obtain a copy of the application note or for more details about the Optichron OP6180, please email sales@optichron.com.

About Optichron

Optichron, Inc., the leader in digital nonlinear signal processing technology, designs and manufactures high-volume integrated circuits that enable significant improvements in system-level cost and performance for communications applications. Optichron® proprietary linearization technology is the industry's most efficient solution for correcting nonlinear distortion, a problem present in all signal processing systems. Signal linearization gives system designers more headroom to implement faster, more efficient systems that cost less to build and operate. For more information and product details please visit www.optichron.com.