

June 7, 2018

Sumitomo Electric Industries, Ltd.

## **Sumitomo Electric to Feature High Output Power S-band and X-band GaN Products for Radar Applications at IMS 2018**

Sumitomo Electric Industries, Ltd and its group company Sumitomo Electric Device Innovations USA, Inc. (SEDU) will participate in the 2018 International Microwave Symposium (IMS 2018) held in Philadelphia, USA. SEDU is a leading provider of advanced RF (radio frequency), wireless and optical communications solutions. Its latest offerings include S-band and X-band GaN HEMTs (gallium nitride high-electron-mobility transistors) targeted for radar applications at 3.1-3.5 GHz and 9.0-10 GHz respectively.

Today's radars provide large detection areas and advanced early detection, while reducing their size and weight. GaN is a proven and reliable semiconductor material used for radar applications. Having high power output and wide bandwidth, GaN is expected to improve the performance of radars. Sumitomo Electric will showcase new GaN-HEMT products, SGN3135-500H-R and SGC0910-300A-R, at the preeminent conference.

Features of SGN3135-500H-R for the S-band

- High output power:  $P_{\text{sat}} = 570 \text{ W}$  (Typ.)
- High gain:  $GP = 11.6 \text{ dB}$  (Typ.)
- High power added efficiency: 58% (Typ.)
- Frequency band: 3.1 to 3.5 GHz
- Impedance matched  $Z_{\text{in}}/Z_{\text{out}} = 50 \text{ ohm}$
- Hermetically sealed IV package

Features of SGC0910-300A-R for the X-band

- High output Power:  $P_{\text{sat}} = 340 \text{ W}$  (Typ.)
- High gain:  $GP = 9.3 \text{ dB}$  (Typ.)

- High power added efficiency: 35% (Typ.)
- Frequency band: 9.0 to 10.0 GHz
- Impedance matched  $Z_{in}/Z_{out} = 50 \text{ ohm}$
- Hermetically sealed package

SGN3135-500H-R and SGC0910-300A-R were designed by drawing on Sumitomo Electric's established GaN process technology. Sumitomo Electric remains the leader in producing GaN-related products and continues to lead in technological innovation to offer low-cost high-performance devices for next-generation radar systems.

Visit us at Booth 1141 to learn more.

## Exhibition Information

IMS 2018

Dates	June 10-15, 2018
Venue	The Pennsylvania Convention Center, 1101 Arch Street, Philadelphia, PA 19107, USA
Booth No.	1141
Exhibits	S-band and X-band GaN HEMTs
Official website	<a href="https://ims2018.org/">https://ims2018.org/</a>

## About Sumitomo Electric Industries, Ltd.

Sumitomo Electric Industries, Ltd. was established in 1897. With the history in electric wire and cable manufacturing, the Company has invested heavily in research and development to expand and establish new businesses. These efforts have allowed us to create new products and technologies, as well as diversify our business fields. Currently, the Company globally operates in five segments: Automotive; Infocommunications; Electronics; Environment & Energy; and Industrial Materials. We will continue to contribute to society through environmental friendly and fair business activities.

## **About Sumitomo Electric Device Innovations USA, Inc.**

Sumitomo Electric Device Innovations USA, Inc., (SEDU), a Sumitomo Electric Group company, is a leading provider of optical components and modules to the telecom, CATV, broadband, and data communications markets. SEDU offers a comprehensive array of transceivers, transmitters, receivers, lasers, photodiodes, and passive components. SEDU also provides a comprehensive line of RF high power wireless solutions. SEDU focuses on the Americas market, while drawing on the well-established global presence of Sumitomo to achieve integrated support to customer facilities throughout the world.

For more information, visit <https://www.sei-device.com/>