

November 15, 2021

Sumitomo Electric Industries, Ltd

Sumitomo Electric Device Innovations USA, Inc.

GaN Semiconductors are Enabling New X-band Radars

San Jose, CA – November 15, 2021 - Sumitomo Electric Industries, Ltd and its group company Sumitomo Electric Device Innovations USA, Inc., a leading provider of advanced radio frequency (RF), wireless and optical communications solutions, introduce its line of high-power gallium nitride (GaN) products for X-Band radar applications.

Next generation X-Band radars face significant size, weight, power, and cost (SWAP-C) challenges. Among the challenges are the RF power amplifier designs used in these radar systems. Sumitomo Electric has developed a line of high power GaN X-Band devices that enable RF solid-state power amplifiers to meet the SWAP-C challenges of these new radars while also improving reliability versus tube amplifiers. GaN provides very high power and bandwidth that improves performance and is a proven and reliable technology for radar applications.

Sumitomo Electric is introducing five new X-Band GaN devices:

	<u>SGC8595-300B-R</u>	<u>SGC0910-300B-R</u>	<u>SGC1011-300B-R</u>	<u>SGM6906VU</u>	<u>SGM6901VU</u>
Freq. (GHz)	8.5-9.5	9.0-10.0	9.8 - 10.5	9.2-9.5	8.5-10.1
Power (W)	270W <= 9.17GHz 235W >9.17GHz	270W <= 9.6GHz 235W >9.6GHz	250W <= 10.3GHz 220W >10.3GHz	43.7W	24W<= 10.1GHz 21.4W >10.1GHz
Gain (dB)	8.3dB <=9.17GHz 7.7dB >9.17GHz	8.3dB <=9.6GHz 7.7dB >9.6GHz	8.0dB <=10.3GHz 7.4dB >10.3GHz	21.4dB	23.3dB
Efficiency	38%	38%	37%	37%	38%
Package	Hermetic Metal/Ceramic Flange Mount	Hermetic Metal/Ceramic Flange Mount	Hermetic Metal/Ceramic Flange Mount	Hermetically Sealed SMT	Hermetically Sealed SMT

Sumitomo Electric remains the leader in GaN and continues to lead in innovation and technology to help customers with lower costs and improved performance for next generation radar systems.

About Sumitomo Electric Industries, Ltd.

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

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

PR Contact: Effie Favreau efavreau@sei-device.com