

PRESS RELEASE

Lasertec Corporation

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GALOIS211 Selected by Skyworks Solutions

Yokohama, Japan, April 1, 2022- Lasertec Corporation is pleased to announce today that its GALOIS211 GaN Wafer Inspection and Review System has been selected by Skyworks Solutions, Inc. as a solution to their needs. Skyworks Solutions is a global leader in the design and manufacturer of high-frequency filter devices and RF front-end modules, both of which are wireless semiconductor devices.

The GALOIS211 uses bright-field confocal optics to enable high-speed detection of defects on heterostructure wafers and the high-resolution review of defect images. It combines Lasertec's proprietary optical technology with an automatic defect detection algorithm that utilizes leading-edge image processing technology to eliminate the noise from the backside of the transparent substrate and the effects from surface morphology, enabling high-sensitivity detection and classification of defects on the wafer surface.

With the expanding use of 5G mobile communications, there has been a rapid increase in the use of high-frequency filters in smartphones and others for Wi-Fi, Bluetooth, UWB, and other applications. In addition, with the increased need for further progress in wireless technologies since the global outbreak of COVID-19, the applications for high-frequency filters are expected to expand even further. Among the various types of high-frequency filters, SAW filters made from lithium tantalate or lithium niobate substrates are considered very promising as the leading wireless semiconductor devices of the future, and earnest efforts in R&D are being made to develop new architectures and semiconductor processes for their production.

Lasertec will continue to strive to develop and enhance defect detection technologies and, in doing so, facilitate enhancements to the quality of communication filters and other high-frequency devices and improvements to their production processes.



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