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UEN:201720322R

11 June 2021

Release of Ultra-low loss thick SiN platform

Advanced Micro Foundry Pte. Ltd. has developed a full suite of SiN platforms covering broad range of wavelengths from visible to Mid-Infrared. Those SiN platforms are being added to the latest version of our Process Design Kit to support our customers towards a shortened time-to-market.

This offering includes unique Low Pressure Chemical Vapor Deposition (LPCVD) SiN processes supporting thicknesses up to 800nm. These platforms support ultra-low waveguide loss performance with losses as low as 0.1dB/cm, as well as improved high optical power handling capabilities when used in conjunction with our Spot Size Converters (SSC). The platforms also enable the fabrication of micro-rings capable of achieving quality factors of 1e6 and higher that can be used for frequency combs.

This new release significantly enhances the performance of the services AMF offers to our customers while also further broadening the range of applications we support, now including high precision spectroscopy, optical metrology along with the previous application base.

About AMF

Advanced Micro Foundry Pte Ltd (AMF) is a commercial pure-play foundry based in Singapore. The company provides innovative Si Photonics solutions for advanced applications. It offers fabrication services ranging from MPW to customizable large volume manufacturing for product deployment with competitive cycle times based on unique platforms.

These platforms include Silicon, SOI (Silicon-On-Insulator) integrated with SiN (Silicon Nitride) and Germanium materials and are supported by a multidisciplinary team of Optical and Semiconductor experts.

Together, AMF solutions enable customers to design, develop and manufacture and package integrated Photonics Chips and are the backbone technology to a global customer base in Data Centers, Telecom, Automotive, Medical and environmental sensors.

For more information about our PDK and services, please contact sales@advmf.com