Modelithics®
World's Best RF & Microwave Simulation Models

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Modelithics® Releases the Modelithics Qorvo® GaN Library v23.5.1

Tampa, Florida (January 25, 2023) – Modelithics, Inc., (Modelithics) is pleased to announce the release of version 23.5.1 of the Modelithics Qorvo GaN Library for use with Keysight Technologies' PathWave Advanced Design System (ADS) and Cadence AWR Design Environment®. This latest version offers new models for Qorvo's QPD1025, QPD1028, QPD1425, and QPD1425L discrete GaN-on-SiC HEMTs. Version 23.5.1 also offers 2 new embedding models for the T2G6000528-Q3 and T2G6003028-FL devices.

The QPD1025 is an 1,800-W device intended to operate from 0.96 to 1.215 GHz, while the QPD1028 is a 750-W device intended to operate from 1.2 to 1.4 GHz. The QPD1425 and QPD1425L are 300-W devices intended for operation from 1.2 to 1.4 GHz. All four of the new models are Angelov-based models that include features like temperature scaling, self-heating effects, and intrinsic I-V sensing.

The new embedding models for the T2G6000528-Q3 and T2G6003028-FL devices make it possible to design power amplifiers (PAs) without comprehensive load-pull analysis. They enable a new waveform-based PA design strategy that begins with the desired intrinsic waveforms. The models then enable direct synthesis of the multi-harmonic impedances needed for the desired intrinsic waveforms. A suitable matching network can then be designed, (see "Nonlinear Embedding Model for Waveform Engineering Motivated PA Design.")

Through the Modelithics Vendor Partner (MVP) Program, the Modelithics Qorvo GaN library is available free to qualified customers. For more information and to request the library, visit www.Modelithics.com/MVP/Qorvo or contact Modelithics at sales@modelithics.com.

About Modelithics, Inc.

Modelithics, Inc. (www.Modelithics.com) was formed in 2001 to address the industry-wide need for high-accuracy RF and microwave active and passive simulation models for use in Electronic Design Automation (EDA). Modelithics' premium product is the Modelithics® COMPLETE Library, which includes the CLR Library™, containing measurement-based Microwave Global Models™ for a multitude of commercially-available passive component families, as well non-linear diode models, non-linear transistor models, and system level component models. Modelithics' services also address a wide range of custom RF and microwave measurement and modeling needs. Modelithics product offerings also include the Modelithics mmWave & 5G Library, Modelithics System Components Library™ the Modelithics COMPLETE+3D Library. Modelithics® is a registered trademark of Modelithics, Inc. Microwave Global Models™, System Components Library™ and CLR Library™ are also trademarks of Modelithics, Inc. The Modelithics Vendor Partner (MVP) Program allows for collaboration and open communication during the development of advanced data sets and models for commercially available microwave components and devices, with flexible sponsorship and distribution arrangements for the resulting data and models. An example of such an arrangement is the Modelithics Qorvo GaN Library, a fully sponsored library distributed for free by Modelithics under sponsorship of Qorvo®. Modelithics also offers a Standard & Custom Test Fixture and Accessory Product Line, including legacy parts from J Micro Technology for a family of thin film Alumina substrate components.

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