Modelithics®
Accelerating Your Design Success!

Contacts:

Modelithics, Inc.
Angie Rogers
Vice President, Marketing & Sales
813.866.6335
sales@modelithics.com

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Modelithics® Releases the Modelithics Qorvo® GaN Library v24.5.4

Tampa, Florida (July 24, 2024) – Modelithics, Inc. is pleased to announce the release of version 24.5.4 of the Modelithics Qorvo GaN Library for use with Keysight Technologies' Advanced Design System (ADS) and Cadence AWR Design Environment®. This release is compatible with Keysight ADS 2022 - 2024 Update 2 and Cadence AWR Design Environment 16 and 17.3+. The Modelithics Qorvo GaN Library is backward compatible with previous Modelithics library releases.

This latest version offers new models for Qorvo's QPD1035 (40W) and QPD1035L (40W) discrete GaN-onSiC HEMTs. The QPD1035 and QPD1035L are 40-W devices with load pull validation of 4, 5, and 6 GHz and a max frequency of 6 GHz. Both models are non-linear models and include temperature scaling. Also available with this release are 2 new embedding models for TGF2977-SM (5W) and QPD1022 (10W) devices.

The new Modelithics embedding models for the TGF2977-SM (5W) and QPD1022 (10W) devices are also added that make it possible to design power amplifiers (PAs) without comprehensive load-pull analysis. These models enable a new waveform-based PA design strategy that begins with the desired intrinsic waveforms. In addition, they enable direct synthesis of the multi-harmonic impedances needed for the desired intrinsic waveforms. A suitable matching network can then be designed. For additional information on Modelithics Embedding models, 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 Modelithics Qorvo GaN Library, visit www.Modelithics.com/MVP/Qorvo or contact Modelithics at sales@modelithics.com.

3802 Spectrum Blvd. Tampa, FL 33612 USA • www.Modelithics.com
E-mail:**sales@modelithics.com** • Phone: 888-359-6359 • Fax: 813-866-6334

Over 23 Years of Precision Measurements and Modeling Excellence!

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 as 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, which support multiple EDA software platforms, 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 the sponsorship of Qorvo®. Modelithics also offers a Standard and Custom Test Fixture and Accessory Product Line, including legacy parts from J Micro Technology for a family of thin film Alumina substrate components.

3802 Spectrum Blvd. Tampa, FL 33612 USA • www.Modelithics.com
E-mail:**sales@modelithics.com** • Phone: 888-359-6359 • Fax: 813-866-6334