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Modelithics® Adds New S-Parameter Models for Vanguard Electronics Inductors and Transformers

Tampa, FL and Huntington Beach, CA (August 17, 2017) – **Modelithics and Vanguard Electronics recently collaborated to develop S-Parameter models for multiple inductor and transformer components from Vanguard. Associated S-parameter files are also available* to designers as free downloads, from Modelithics' website, for use in RF design simulations. The S-parameter models (with additional features) are conveniently included in the SPAR Library contained within the Modelithics® COMPLETE Library.**

The new S-parameter models and S-parameter data files are now available for selected component values from seven inductor families, including the 26,000 (1111 case size), 26,200 (1111), 27,000 (1111), 30,000 (1111), 33,000 (1613), 34,000 (1613), and 50,000 (0708) series. Transformer S-parameter data is also now available for the R-series, S-series, M-series, and K-series.

The models and data files offer simulation of each component up to 6 GHz on a single specified substrate. For each series, a detailed S-parameter model datasheet has been developed that outlines important measurement details, such as substrate, land pattern, reference planes, available part values, and frequency range. The datasheets also include representative S-parameter data plots for each inductor and transformer series.

The S-parameter model (SPAR) format is a convenient packaged configuration of S-parameter data for each inductor and transformer family. The model is formatted to work seamlessly with popular EDA tools, including Keysight ADS, Keysight Genesys, and NI AWR Design Environment. SPAR models have some very useful capabilities that are beyond those of individual S-parameter files. They are accessible directly from the palette or part selector in the EDA software environment. In addition, one S-parameter model contains the measurement data for all indicated values, so the component value can be selected within in the model without removing and replacing a new element into the schematic. This part-value selectability feature also allows for discrete optimization when using the SPAR models alone or in combination with other active and passive models within the Modelithics COMPLETE Library.

Vanguard Electronics is a Strategic Modelithics Vendor Partner (MVP) and is currently sponsoring free 30-day trials of all Vanguard models in the Modelithics library. This can be requested on the Vanguard Electronics MVP page: <https://www.modelithics.com/MVP/Vanguard>, then click on “Free Trial”. For more information about the new models or about the Modelithics Vendor Partner program, contact Modelithics at sales@modelithics.com.

*With approval

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, the *NLD Library™* (non-linear diode models) the *NLT Library™* (non-linear transistor models), and the *SLC Library™* (system level component models). Modelithics' services also address a wide range of custom RF and microwave measurement and modeling needs. Modelithics® is a registered trademark of Modelithics, Inc. Microwave Global Models™, CLR Library™, NLD Library™, NLT Library™, and the SLC Library™ are also trademarks of Modelithics, Inc. The Modelithics Vendor Partner 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®.

About Vanguard Electronics

Vanguard Electronics has been an industry leader for over 60 years in the design and manufacture of inductors and transformers. With a reputation for reliability in demanding environments Vanguard is a preferred supplier to major contractors in the Defense, Aerospace, Space, Medical, and Extreme Environment. In addition to the RF models, Vanguard maintains full electrical and mechanical testing capabilities. Vanguard Electronics has facilities in California and Mexico. All three facilities meet the highest defense and aerospace industry standards and are AS9100 certified, ITAR compliant and ready to support standard catalog product, variations on catalog items or full custom designs. For the industry leading magnetic solutions, contact Vanguard Electronics (www.ve1.com)