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KEMET Corporation

FOR IMMEDIATE RELEASE

November 7, 2016

KEMET and Modelithics Partner to Provide Highly Accurate Models for CBR RF Capacitor Series

Tampa, Florida and Greenville, SC (November 7, 2016) – **Modelithics and KEMET are pleased to announce that the companies have partnered to provide highly accurate measurement based simulation models for the entire KEMET CBR RF Capacitor series.**

KEMET and Modelithics recently collaborated to develop highly accurate measurement based equivalent circuit models for the KEMET CBR RF capacitor series, including EIA case sizes 0201, 0402, 0603, 0805 and 0505. These models are now available in industry leading simulation tools including Keysight ADS, Keysight Genesys, NI AWR Design Environment, ANSYS HFSS and Sonnet Suites.

When designing RF circuits, standard models for capacitors fail to provide any effects of pad geometry, substrate conditions, and high frequency parasitic effects. By utilizing Modelithics scalable [Microwave Global Models™](#), engineers can specify pad and substrate parameters and run simulations of KEMET CBR RF capacitors as if they were measuring directly in circuit. These advanced models are also scalable by capacitance value, since each model covers an entire range of values within a capacitor family. This allows for powerful optimization and tuning of a design. The tolerance parameter provides for statistical analysis capability. All of these features lead to improved first pass design success.

Larry Dunleavy, President and CEO of Modelithics, stated “KEMET’s customers will be extremely pleased with the new level of design accuracy and analysis that are possible with these powerfully flexible models. KEMET’s sponsorship of these models, as part of [Modelithics Vendor Partner \(MVP\) Program](#), shows its commitment to supporting high frequency engineers with the best possible design information.”

KEMET’s CBR Series surface mount multilayer ceramic capacitors (MLCCs) in COG dielectric feature a robust and exceptionally stable copper electrode dielectric system that offers excellent low loss performance (high Q). These devices offer extremely low ESR and high self-resonance characteristics, and are well-suited for resonant circuit applications or those where Q and stability of capacitance are required.

KEMET is sponsoring **FREE 30-day licenses** for use of all KEMET capacitor models in the Modelithics library. For more information about the Modelithics KEMET simulation models and to request the free trial, visit the KEMET MVP page at <https://www.modelithics.com/MVP/KEMET>.

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 KEMET

KEMET Corporation is a leading global manufacturer of electronic components that meet the highest standards for quality, delivery and service. The company offers its customers the broadest selection of capacitor technologies in the industry across all dielectrics, along with an expanding range of electromechanical devices, electromagnetic compatibility solutions and supercapacitors. KEMET's corporate headquarters are in South Carolina; the company also operates manufacturing facilities, sales and distribution centers around the world. KEMET's common stock is listed on the NYSE under the symbol "KEM." Additional information about KEMET can be found at www.kemet.com.