

Contacts:

Modelithics, Inc.

Laura Levesque
813.866.6335
sales@modelithics.com

IPDiA

Laetitia Omnes
+33 (0)2 31 53 54 06
laetitia.omnes@ipdia.com

FOR IMMEDIATE RELEASE

September 15, 2016

Modelithics and IPDiA Collaborate to Develop Models for the 0201M Ultra Broadband Silicon Capacitor

Tampa, Florida and Caen, France (September 15, 2016) – Modelithics, Inc., and IPDiA, have teamed to develop Modelithics models for IPDiA's high performance ultra broadband surface mount silicon capacitor. Modelithics and IPDiA worked closely as part of the Modelithics Vendor Partner (MVP) Program to characterize the 10 nF low profile (100 µm) capacitor (UBSC 935 152 492 510). Modelithics has developed two equivalent circuit model versions, one that features validation to **67 GHz**, based on testing done in microstrip format offering substrate and pad scalability, and another that is validated to **110 GHz**, using test data obtained with a coplanar waveguide fixture on quartz thin film. This 10 nF silicon capacitor in a 100 µm 0201 form factor shows the following performances:

- Flat frequency response (insertion loss < 0.4 dB up to 67 GHz & < 1.2 dB up to 110 GHz);
- Excellent return loss better than -20 dB;
- Resonance free thanks to the capacitor single layer design of 50 µm thickness;
- Zero piezoelectric effect and low dielectric absorption (0.05%) at least 12 times lower than ceramic capacitors;
- Ultra low electrical variation over voltage and temperature (lower than 1%).

IPDiA is sponsoring **FREE 90-day licenses** for use of all Modelithics models available for IPDiA capacitors, which are also now included in Modelithics COMPLETE Library. This includes the two new equivalent circuit model versions for the 0201M (10 nF, 100 µm thickness, 11 V breakdown voltage), plus Modelithics S-Parameter data models for other values and variations of the ultra broadband silicon capacitor series. The IPDiA model sub-library is now available for easy installation and use in five popular microwave simulation tools: Keysight ADS, Keysight Genesys, NI AWR Design Environment, ANSYS HFSS and Sonnet Suites. For more information about the Modelithics-IPDiA simulation models, and to request a free trial, visit the IPDiA MVP page at <https://www.modelithics.com/mvp/ipdia> Use the promo code: IPDMVP for an extended free use period. Information about IPDiA capacitors can be found at www.ipdia.com.

For questions about the Modelithics COMPLETE Library, contact Modelithics at sales@modelithics.com. For questions about IPDiA products, contact IPDiA at sales@ipdia.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, 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 IPDiA

IPDiA is an independent European High Tech Company dedicated to the manufacture of leading edge Integrated Passive Devices for medical, automotive, communication, industrial and high reliability market such as downhole, defense/aerospace . IPDiA is recognized as the world leader in 3D Silicon Capacitors and its brilliant technology, based on a semiconductor MOS process, has been adopted by world leaders in medical electronics as well as by key players in the semiconductor area and Hi-Rel industry. IPDiA portfolio includes silicon capacitors from pF to tens of μF and is composed of:

- Low Profile Capacitor < 80 μm thin for decoupling inside critical space application
- High Temperature Capacitor up to 250°C with very high stability;
- Ultra Broadband Capacitor up to 60 GHz;
- High Reliability Medical and Automotive Grade Capacitor;
- 2D and 2.5D Silicon Interposers with and without passive components for integration in System in Package (SiP) or MultiChip module (MCM);
- Passive component networks for integration in module or on board

IPDiA facilities are located in Caen, France and Montreal, Canada. The company operates design centers, sales and marketing offices and a manufacturing facility of 10 000 m² (110 000 ft²) certified ISO 9001 / 14001, ISO TS16949 for the automotive market as well as ISO 13485 for medical devices.