

ACS-2600-RTM

- Leverages unique strengths of Keithley Series 2600 System SourceMeter® SMU instruments – including system scalability and measurement speed
- System configurations from 2 to 44 channels
- Comprehensive JEDEC-compliant test suite
- Optimized for both emerging and mature technologies
- Supports both sequential and parallel testing
- Fully automatic single-site and multi-site capability
- Compatible with all popular wafer probe stations
- Real-time plotting and wafer mapping

APPLICATIONS

- **Device reliability**
 - HCI, NBTI, PBTI
- **Gate oxide integrity**
 - TDDB, V_{RAMP} , J_{RAMP}
- **Metal interconnect**
 - Isothermal electromigration
 - Poly heater
 - Constant current
 - ILD TDDB

Ordering Information

ACS-2600-RTM
Wafer Level Reliability
Option to ACS

Wafer Level Reliability Option to ACS



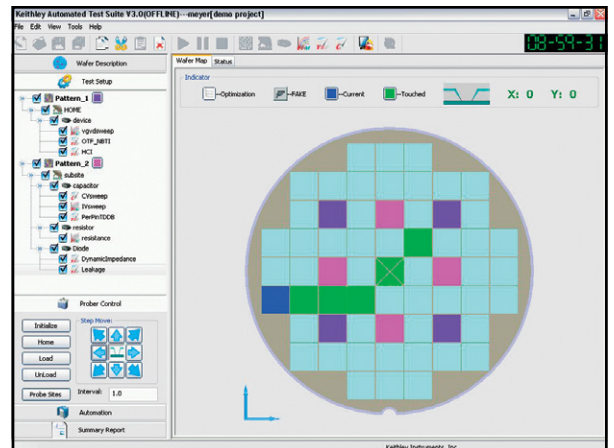
Keithley has taken the power of its Automated Characterization Suite (ACS) software and focused it on wafer level reliability (WLR) testing. ACS-2600-RTM is an option to ACS that leverages the measurement speed and system integration capabilities of Keithley's Series 2600 System SourceMeter® SMU instruments. The result—you can produce lifetime predictions from two to five times faster than you can with conventional WLR test solutions, allowing you to accelerate your technology development, process integration, and process monitoring for faster time to market.

With the ACS-2600-RTM option, ACS offers comprehensive single- and parallel-device WLR testing capability. Integrated with our innovative Series 2600 SourceMeter SMU instruments, your WLR system will provide unmatched testing speed and accuracy via an SMU-per-pin architecture. A single 2600 dual-channel source measure unit (SMU) is suitable for single-device reliability testing. Or take advantage of the TSP-Link® Technology bus on the Series 2600 SMU instruments for systems with as many as 44 SMU channels (2 for each 2600) for testing large numbers of devices in parallel and increasing overall system productivity. In

addition to precise low-level measurements, the Series 2600 SMU instruments can supply high voltage (200V) and high current (1.5A) sourcing and measurement to every test structure pad. This maximizes system flexibility, so you don't need one solution for gate oxide integrity and a different system for metal interconnect reliability. Looking for a complete system solution? Keithley offers ACS with its highly configurable S500 Integrated Test Systems and application development services.

Extensive Software Capabilities

No coding is required to take full advantage of the source-measure capability of the Series 2600s or the tools included in the ACS software environment. The ACS-2600-RTM option provides a powerful stress/measure sequencing tool with an interactive interface for testing device reliability, gate oxide integrity, and metal interconnects (EM). Its flexible test sequencing capabilities support pre- and post-testing, as well as intra-stress testing and stress monitoring. During testing, you can log raw reliability data into the database and/or plot it in real time. This real-time plotting provides a “sneak peek” at a test's outcome to let you know whether time-consuming tests are on track to deliver meaningful results. After testing, use the easy point-and-click analysis offered by the integrated Formulator, which is populated with standard parametric extraction calculations. In addition, a variety of modeling, line fitting, and standard math functions allow custom data manipulation without programming.



1.888.KEITHLEY (U.S. only)

www.keithley.com

A Greater Measure of Confidence

KEITHLEY

A Tektronix Company

Specifications are subject to change without notice. All Keithley trademarks and trade names are the property of Keithley Instruments, Inc. All other trademarks and trade names are the property of their respective companies.

KEITHLEY

A Tektronix Company

A Greater Measure of Confidence

KEITHLEY INSTRUMENTS, INC. ■ 28775 AURORA RD. ■ CLEVELAND, OH 44139-1891 ■ 440-248-0400 ■ Fax: 440-248-6168 ■ 1-888-KEITHLEY ■ www.keithley.com

BRAZIL

55-11-4058-0229
www.keithley.com

CHINA

86-10-8447-5556
www.keithley.com.cn

FRANCE

01-69868360
www.keithley.fr

GERMANY

49-89-84930740
www.keithley.de

INDIA

080-30792600
www.keithley.in

ITALY

02-5538421
www.keithley.it

JAPAN

Tokyo: 81-3-6714-3070
Osaka: 81-06-6396-1630
www.keithley.jp

KOREA

82-2-6917-5000
www.keithley.co.kr

MALAYSIA

60-4-643-9679
www.keithley.com

MEXICO

52-55-5424-7907
www.keithley.com

SINGAPORE

01-800-8255-2835
www.keithley.com.sg

SWITZERLAND

41-56-460-78-90
www.keithley.ch

TAIWAN

886-3-572-9077
www.keithley.com.tw

UNITED KINGDOM

044-1344-392450
www.keithley.co.ukw