

Getting Started with TDSPWR2

You can use this side of the Quick Reference to start to take measurements with the Power Measurement and Analysis Application (TDSPWR2). The other side contains a complete menu tree for TDSPWR2 software.

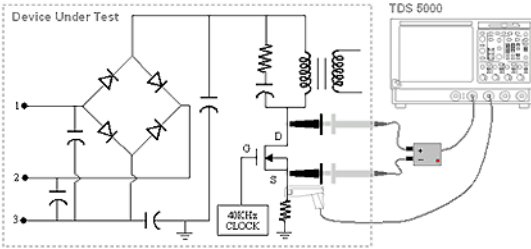
NOTE. For complete operating instructions and General Safety information, refer to the Online Help for the application.

The TDSPWR2 application analysis software transforms a digital oscilloscope into an analysis tool that measures and analyzes power dissipation in power supply switching devices and magnetic components. It then generates detailed test reports in customizable formats.

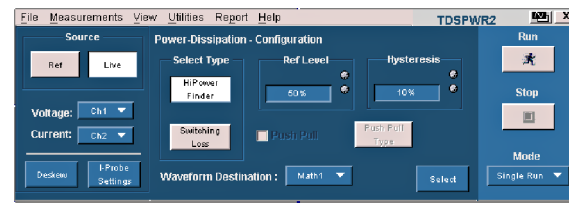
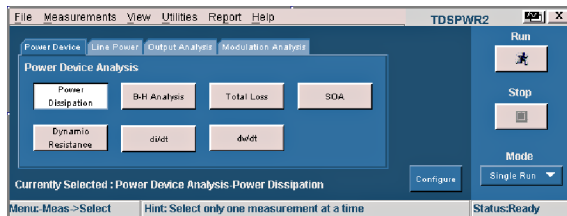
Performing a Switching Loss Measurement

To measure Switching Loss, follow these steps:

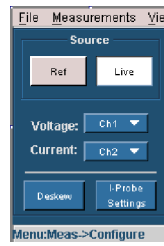
1. Select File> Run Application> TDSPWR2 in the oscilloscope menu bar.
2. Connect the probes to the device under test. For example, the test setup for Switching Loss is shown below.



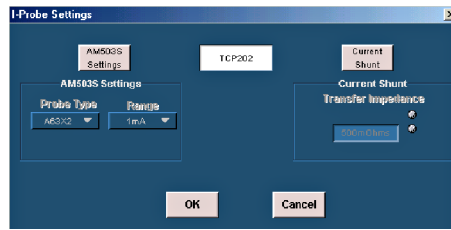
3. In the Power Device tab, select Power Dissipation. Press Configure.



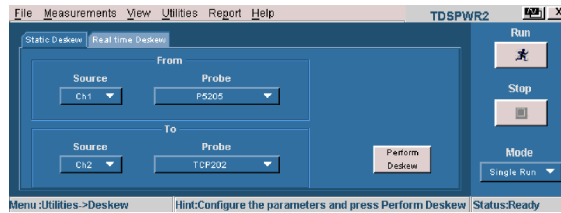
4. Select the Switching Loss option.
5. Configure the options in the common configuration panel.



6. Select the Source and assign the Voltage and Current channels.
7. Set the appropriate I-Probe settings.



8. Select the Deskew option or select Utilities>Deskew to deskew.



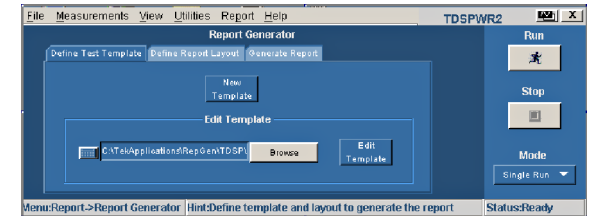
9. Push the "Running Man" button to start taking measurements. If the measurement is successful, the application automatically displays the results. You can also view the results by selecting View> Results from the application menu bar.



10. The application displays results for the measurement in three tabs: T-on Power Loss, T-off Power Loss and Power Loss.



11. To generate a report, select Report> Report Generator.
12. Select the template in the Generate Report tab.
13. Select the Generate button to post the test data to the template.



For up-to-date information on Tektronix oscilloscope solutions for Power Measurement, access the www.tektronix.com/Measurement/scopes/ web page.

TDSPWR2 Ordering Information

(Supports the TDS5000, TDS7054 and TDS7104 oscilloscopes; refer to the *Optional Applications Software on Windows-Based Oscilloscopes Installation Manual* for a list of specific models. The applications CD includes a PDF file of the installation manual.)

If you order Option PW2 along with TDS5000/TDS7054/TDS7104:

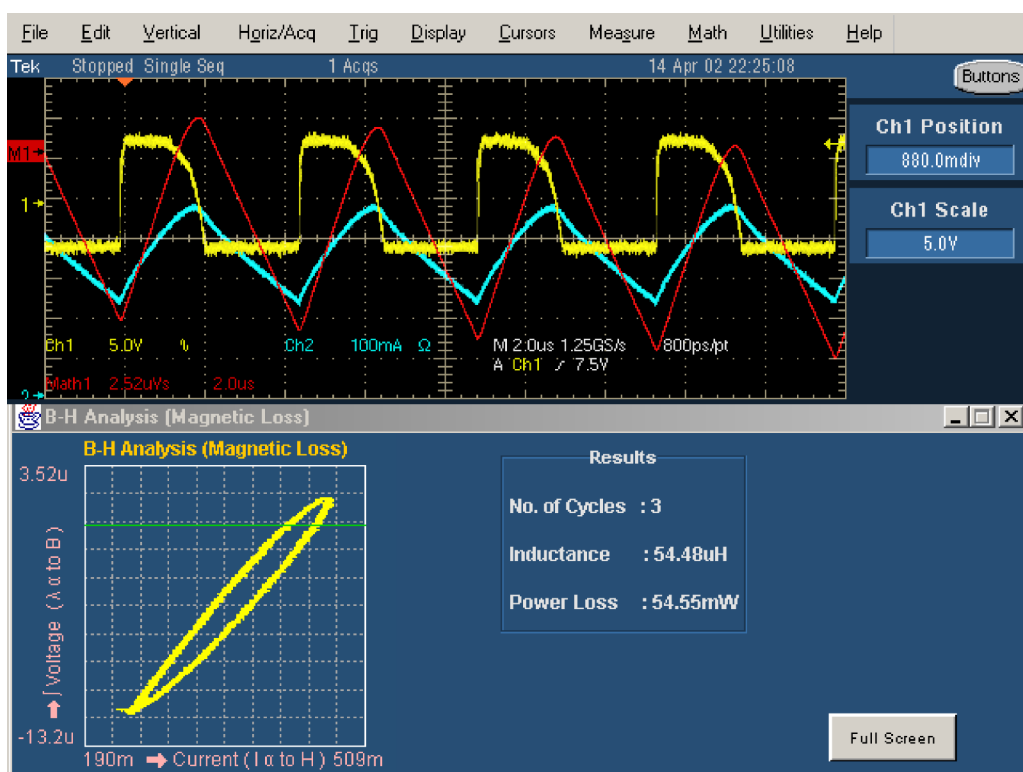
- Power Analysis Measurements Application is installed and enabled

To order an upgrade for an existing oscilloscope:

- Order the TDS5UP Option PW2
- Order the TDS7UP Option PW2

Recommended Accessories

Opt. 2M for TDS5000/TDS7054/TDS7154



TDSPWR2 Power Analysis Measurements Reference

