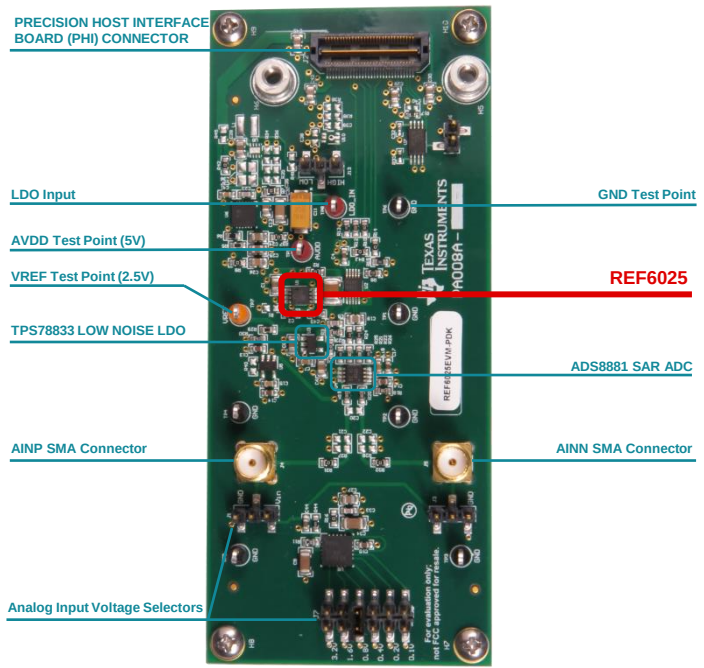
REF6025 EVM Board



More information about Precision Voltage References can be found at http://www.ti.com/vref

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Quick Start Guide:

REF6025EVM-PDK

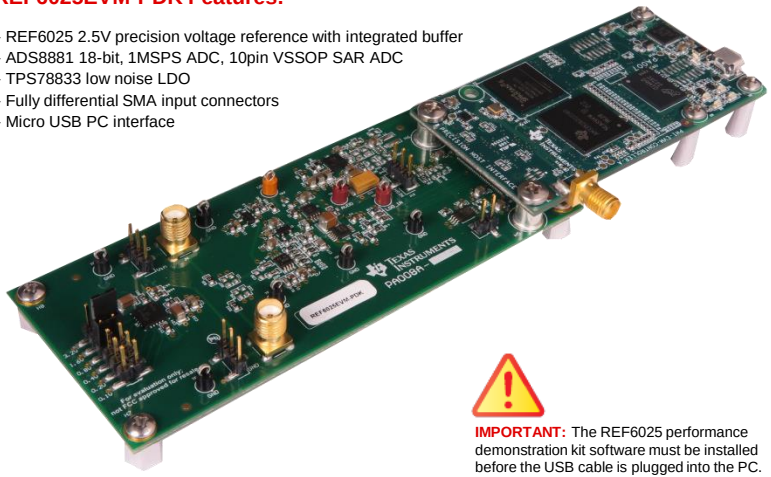
Voltage Reference

TEXAS INSTRUMENTS

The REF6025 Performance Demonstration Kit (PDK) is ideal for evaluating and starting development with the REF6025 precision voltage reference with integrated ADC drive buffer. This kit is comprised of a REF evaluation board (EVM), a precision host interface board (PHI), a micro USB cable and board attachment screws. The EVM features two SMA connectors that support fully differential analog input signals for the ADC. The REF6025 provides a 2.5V reference for the ADC without the need of an additional drive buffer. An easy to use PC based application (GUI) is available to help evaluate the performance of the REF6025 PDK.

REF6025EVM-PDK Features:

- REF6025 2.5V precision voltage reference with integrated buffer
- ADS8881 18-bit, 1MSPS ADC, 10pin VSSOP SAR ADC
- TPS78833 low noise LDO
- Fully differential SMA input connectors
- Micro USB PC interface



The complete user guide for the kit can be found at http://www.ti.com/lit/pdf/sbau258

IMPORTANT: The REF6025 performance demonstration kit software must be installed before the USB cable is plugged into the PC. The software may be downloaded from http://www.ti.com/tool/REF6025EVM-PDK

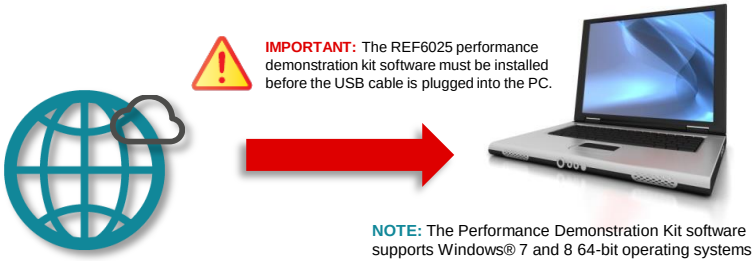
Quick Start Guide: REF6025EVM-PDK

Performance Demonstration Kit

1 Download and install the REF6025EVM-PDK GUI Software

http://www.ti.com/tool/REF6025EVM-PDK

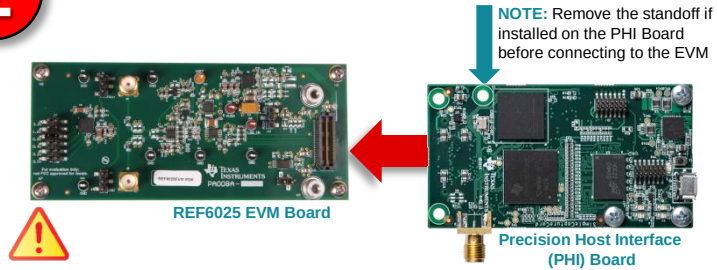
IMPORTANT: The REF6025 performance demonstration kit software must be installed before the USB cable is plugged into the PC.



NOTE: The Performance Demonstration Kit software supports Windows® 7 and 8 64-bit operating systems

2 Connect the Precision Host Interface (PHI) Board to the REF6025 EVM Board

NOTE: Remove the standoff if installed on the PHI Board before connecting to the EVM

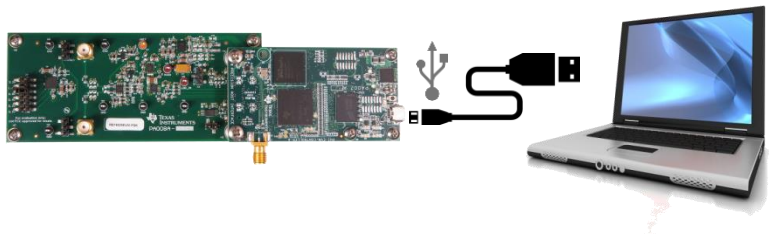


REF6025 EVM Board

Precision Host Interface (PHI) Board

IMPORTANT: The included screws should be used to make a secure connection between the two boards to avoid damage.

3 Connect the micro USB cable to the Precision Host Interface Board and the PC



4 Launch the REFE6025EVM-PDK GUI software on the PC from the 'Start' menu

A differential input signal can be connected to the EVM's SMA connectors and conversion results can be viewed using the GUI software.





The GUI software also include data analysis tools to evaluate the ADC's DC, AC and settling parameters.

TI E2E Community

Technical support for Precision Voltage References can be found at http://www.ti.com/precisionvrefsupport

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