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VM7510

DC Reference Standard

Features

- **Precision dc reference facilitates digitizer calibration**
- **On-board programmable switch reduces need for external system cabling**
- **Simplified programming using word-serial commands**
- **Programmable polarity for dc reference**
- **Mix/match with up to two VMIP series instruments in a single VXI slot**

The VM7510 is a precision dc voltage standard which is designed to be used in conjunction with high-performance digitizers, such as the VM2601 family, to facilitate calibration with a test system. The VM7510 provides a precision +/- 0.5 V signal which can be used as the dc reference during calibration to provide a higher level of accuracy than typical specifications. An on-board precision switch provides the flexibility to allow users to select between the measurement input, the internal dc source, or an external ac calibration source without the need for external signal routing or cabling.

As part of VTI's VMIP series of modular instruments, the VM7510 can be combined with up to two other measurement or stimulus functions to provide a flexible high-performance instrument in a single "C"-size VXI slot. For example, the VM7510 can be integrated with the VM2601, 80 MSa/s digitzer and VM2164, 200 MHz dual counter/timer on a VM9000 carrier, to provide a versatile, high-performance measurement system on a standard VXI module.

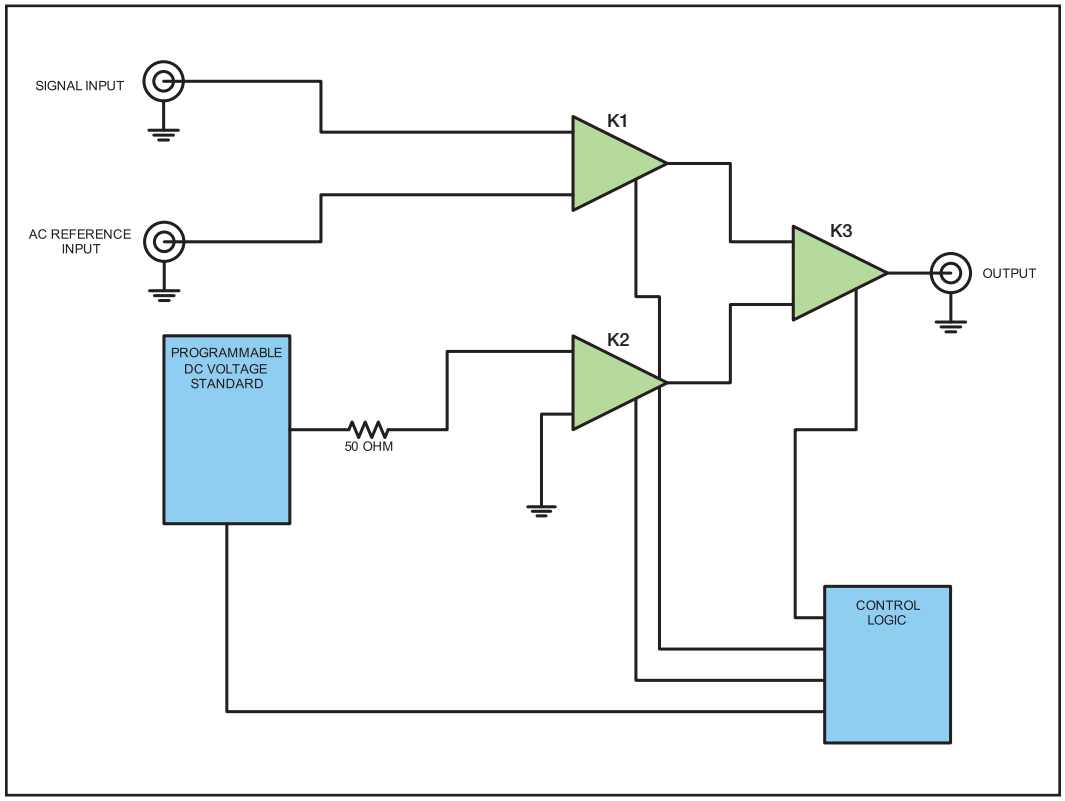
Ordering Information

VM7510	DC reference standard

www.vtiinstruments.com

VM7510 DC Reference Standard

Block Diagram



General Specifications

SIGNAL INPUT AND AC REFERENCE INPUT

Insertion Loss

100 MHz	< 0.2 dB
500 MHz	< 0.5 dB

Isolation

10 MHz	< -80 dB
100 MHz	< -70 dB
500 MHz	< -65 dB

VSWR

100 MHz	< 1.2:1

DC REFERENCE

Output Voltage	+1.000 V, 0.000 V, or -1.000 V into a high impedance load +0.500 V, 0.000 V, or -0.500 V into a 50 Ω load
Output Impedance	50 Ω
Output Drive	> 100 mA
Output Accuracy	±100 µV all output settings, into high impedance
Output Adjustment	±5.0 mV all output settings, into high impedance. Front panel accessible multi-turn potentiometer.
Temperature Stability	25 ppm/°C
Long Term Stability	50 ppm/yr
Rront Panel Connector	SMB (x3)

All information and specifications subject to change without notice.

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