

## SOUTHWEST RESEARCH INSTITUTE™

6220 Culebra Road, P.O. Drawer 28510 Institute Quality Systems Institute Calibration Laboratory Phone: 210-522-5215 Fax 210-522-3692



0972-01

## **Certificate of Calibration**

Submitted By: DIV20 Address: B57

Contact: DARRELL DUNN

Manufacturer Model: SWRI 10 OHM

**Description:** RESISTOR BOX **Serial No:** 171002

**Asset No:** 003095

Procedure: RESISTORS JAN/04

**Work Order:** 303063716

**Date Issued:** Apr 19, 2005 **Calibration Date:** Apr 19, 2005

\*\*Calibration Due: Oct 19, 2005 Calibration Location: Bldg. 64

Environment: Temp. 72.0°F Hum. 44 %RH

\*As Found: IN TOLERANCE
\*As Left: IN TOLERANCE

This certificate documents traceability to the National Institute of Standards and Technology (NIST) and the International System of Units (SI). The Laboratory quality system conforms to ISO/IEC 17025, 1999 and ANSI/NCSL Z540-1-1994 which are equivalent to relevant requirements of the ISO 9000-1994 series of standards. This certificate may not be reproduced, except in full, without the written approval of the Southwest Research Institute Calibration Laboratory. The results of this calibration relate only to the individual instrument described above. This certificate shall not be used to claim product endorsement by the American Association for Laboratory Accreditation (A2LA) or any agency of the U. S. Government.

Uncertainty evaluation includes the item under test and is calculated in accordance with the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM). The uncertainty represents an expanded uncertainty using a coverage factor of k=2 to approximate a 95% confidence level. See Remarks or attached Calibration Report with the same Work Order number for calibration data.

\*The client has sole responsibility for determination of in/out of tolerance or compliance/noncompliance. An in/out of tolerance opinion is provided for your convenience based only on the Test Instrument (TI) reading(s) and limits as reported. The reported uncertainty relates only to the results at the time of calibration and does not imply any short or long term stability of the TI.

\*\*Calibration interval is determined by the client and does not assure the instrument will remain within tolerance until this date. Any number of factors may cause the instrument to be out of tolerance before the next calibration date.

Remarks: None

## Standards Used

Asset	Manufacturer	Model	Description	Cal Due
001505	HEWLETT-PACKARD	3458A/OPT-002	MULTIMETER	Mar 24, 06

Approved by: Walt Hill Metrology Group Leader m:\a2la1.rpt Rev date 11, May 04

Measurements by: Curtis Laurence

Metrology Technician

Page 1 of 1

## Southwest Research Institute Calibration Laboratory Measurement Report

ona	Serial No. 171002 Type. Resistor Cal Date. 19-Apr-05	303063716	Mfr.	SWRI	Technician	WCL
ona		003095	Model	10 OHM		
Remarks:	Remarks:	171002	Туре.	Resistor	Cal Date.	19-Apr-05
Tromaino.			003095	003095 Model	003095 Model 10 OHM	003095 Model 10 OHM

Function/Range Test Point TI Reading Difference +/-Limit +/-Uncertainty								
Resistance	Ohm	Ohm	Ohm	Ohm	Ohm	Result		
G-W	10.00	10.07	0.07	0.10	0.00075	Pass		
G-R	10.00	10.07	0.07	0.10	0.00075	Pass		
END OF REPORT								