



SOUTHWEST RESEARCH INSTITUTE®

6220 Culebra Road, P.O. Drawer 28510
Institute Quality Systems
Institute Calibration Laboratory
Phone: 210-522-5215 Fax 210-522-4834



Certificate of Calibration

0972-01

Submitted By: DIV20
Address: B57
Contact: DON BANNON
Manufacturer Model: SWRI 10 OHM
Description: RESISTOR BOX
Serial No: 171002
Asset No: 003095
Procedure: DECADE RESISTOR TO 100 MOHM-STEP - 21 MAR 2006

Work Order: 303071045
Date Issued: Sep 19, 2006
Calibration Date: Sep 19, 2006
***Calibration Due:** Mar 19, 2007
Calibration Location: Bldg. 64
Environment: Temp. 74.0°F Hum. 43 %RH
****Data Type:** FOUND-LEFT

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, ANSI/NCCL Z540-1-1994 and relevant requirements of the ISO 9000-2000 standard. This certificate shall not be reproduced, except in full, without the written approval of the Southwest Research Institute Calibration Laboratory. This certificate shall not be used to claim product endorsement by Southwest Research Institute, American Association for Laboratory Accreditation (A2LA) or any agency of the U. S. Government. Results of this calibration relate only to the instrument described above at the time of calibration and does not imply any long term stability of the instrument.

*Determined by the customer, does not imply the instrument will remain within tolerance as any number of factors may cause an out-of-tolerance condition before this date. **Found/Left = adjustment and/or repair was not required, As Left = adjusted and/or repaired was required. The client has sole responsibility for determination of in-/out-of-tolerance or compliance/noncompliance. See Remarks or attached Measurement Report with the same Work Order number for data.

Reported uncertainty calculated in accordance with the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM) and represents an expanded uncertainty with a coverage factor of k=2 to approximate a 95% confidence level.

Remarks: None

Standards Used

Asset No.	Serial No.	Manufacturer	Model	Description	Cal Due
012066	MY45040419	HEWLETT-PACKARD	3458A/OPT 002	MULTIMETER	Apr 11, 07

120

Instrument calibration record for SwRI
Resistor Box Model # 10 Ohm, Serial #
171002 (09/19/2006)

Reviewed by: blt () jrg () pwc () ghn ()
Metrology Technician

Measurements by: Paul Depmore
Metrology Technician

Southwest Research Institute
Calibration Laboratory
Measurement Report

Work Order:	303071045	Mfr.	SWRI	Technician	PRD
Asset No.	003095	Model	10 OHM		
Serial No.	171002	Type.	Resistor	Cal Date.	19-Sep-06
Remarks:					

Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left
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