



SOUTHWEST RESEARCH INSTITUTE®

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Institute Quality Systems
Institute Calibration Laboratory
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Certificate of Calibration

Certificate #

0972-01

Submitted By: DIV20
Address: B51
Contact: DON BANNON
Manufacturer Model: TCC S102C
Description: RESISTOR
Serial No: 1
Asset No: 011354
Procedure: RESISTORS, JAN/04

Work Order: 303064573
Date Issued: Jun 10, 2005
Calibration Date: Jun 10, 2005
***Calibration Due:** Dec 9, 2005
Calibration Location: Bldg. 64
Environment: Temp. 72.0°F Hum. 42 %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/NCSL 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: Unit reads 250.0094 ohms; Uncertainty of measurement is 0.0043 ohms

Standards Used

Asset No.	Serial No.	Manufacturer	Model	Description	Cal Due
007001	2823A21362	HEWLETT-PACKARD	3458A/OPT-002	MULTIMETER	Feb 17, 06

Approved by: Walt Hill

Manager

m:\a2la1.rpt Rev date March 6, 2005

Measurements by: Curtis Laurence
Metrology Technician