



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 #

0972-01

Certificate of Calibration

Submitted By: DIV20
Address: B57
Contact: DON BANNON
Manufacturer Model: TCC S102C
Description: RESISTOR
Serial No: 6
Asset No: 011359
Procedure: DECADE RESISTOR TO 100 MOHM-STEP 21 MAR, 2006

Work Order: 303069630
Date Issued: Jun 2, 2006
Calibration Date: Jun 2, 2006
***Calibration Due:** Dec 1, 2006
Calibration Location: Bldg. 64
Environment: Temp. 74.0°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/NC SL 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 measurement of 250.0070 ohms; Uncertainty of measurement is 0.0050 ohms

Standards Used

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

120

Q200606140011
Instrument calibration record for Resistor,
Model # TCC S102C, Serial # 6 (06/02/2006)

Reviewed by: blt () jrg () pwc () wgl ()
Metrology Technician
m:\a2la1.rpt Rev date August 15, 2005

Measurements by: Paul Depmore
Metrology Technician

Southwest Research Institute
 Calibration Laboratory
 Measurement Report

Work Order:	303069630	Mfr:	TCC	Technician:	PRD
Asset No:	011359	Model:	S102C	Cal Date:	02-Jun-06
Serial No:	6	Type:	Resistor 250 Ohm		
Remarks:					

Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left
Resistance	Ohm 250	Ohm 250.0070	Ohm 0.0070	Ohm 10	Ohm 0.0050	Result Pass
END OF REPORT						