

Mail Stop: B51 Manufacturer/Model: SWRI / 1000 OHM Description: RESISTOR BOX Serial Number: 171001 Asset Number: 003096

Procedure: RESISTORS 3458A METHOD - 26 FEB 09

Work Order: 303091317 Date Issued: 16-Nov-2009 Date Calibrated: 16-Nov-2009 * Date Due : 16-May-2010 ** Results: FOUND-LEFT Temperature: 74.0 °F Humidity: 40 %RH Barometer: N/A

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, 2005, 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. **Data type found in this certificate or attached measurement report must be interpreted as: Found-left - adjustment and/or repair was not performed, As-found - data is before unit is adjusted and/or repaired, As-left - data is after adjusted and/or repaired was performed. The customer has sole responsibility for determination of in-/out-of-tolerance or compliance/noncompliance.

Measurement uncertainty calculated in accordance with the method described in the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM), for a confidence level of approximately 95 percent using a coverage factor of k=2.

Remarks: ± 1.0%

Standards Used

Asset # Manufacturer 001505 HEWLETT-PACKARD Model 3458A/OPT 002 Description MULTIMETER <u>Cal Date</u> 29-Jan-2009 Due Date 29-Jan-2010

Was

Laboratory Manager m:\A2LA OCT_08.rpt

Bob Trollinger

Metrology Technician

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Southwest Research Institute Calibration Laboratory Measurement Report

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Work Order:	303091317	Mfr:	SWRI		Technician:	blt	
Asset No:	003096	Model:	1 000 Ohm		Type Data:	Found-	left
Serial No:	171001	Type:	Resistor Box		Cal Date:	16-Nov-09	
Remarks: Limits of ± 1	.0 % per custome	r request.			-		
Function/Range	Test Point	TI Reading	Difference	+/- Limit	+/- Uncertainty	Result	% Limit
		and the second data and the se					
Resistance	Ω	Ω	Ω	Ω	Ω		
Resistance Green to White	Ω 1000.00	Ω 1000.05	Ω 0.05	Ω 10	Ω 0.016	Pass	1%