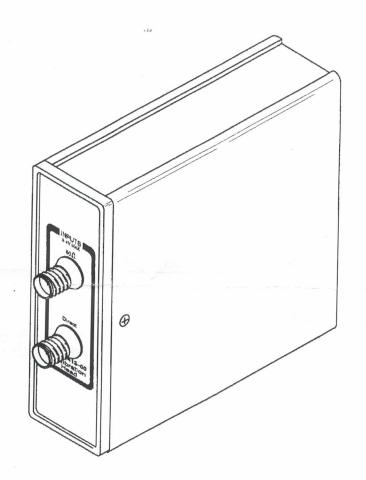
Instructions



067-1413-00 Calibration Head for 11800 and CSA 800 Series Digital Sampling Oscilloscopes 063-0318-01

067-1413-00 Calibration Head for 11800 and CSA 800 Series Digital Sampling Oscilloscopes



PRODUCT DESCRIPTION

The 067-1413-00 Calibration Head is designed for installation in the sampling head compartment of both 11800 Series Digital Sampling Oscilloscopes and CSA 800 Series Communications Signal Analyzers. The calibration head is used primarily to check the accuracy of vertical gain and DC offset settings during servicing of these instruments. Inputs on the front panel are designed to accept direct or 50 Ω terminated connections from a precision voltage source.

Full descriptions of calibration applications are contained in the 11800 and CSA Service Reference manuals. This item is designed as a non-serviceable product. No calibration or adjustment is necessary. If the item becomes defective for any reason, a product re-order will be necessary.

Note that insertion of the calibration head will cause an initial time base error indication. To clear this, exit diagnostics. You will then see a message indicating that a time base calibration failed. This message may be ignored. System identification of the calibration head can be achieved by pressing the UTILITY button and selecting the Identify pop-up menu. The resulting data should indicate "-1413" followed by the unit serial number.

Specifications

Electrical Characteristics

Characteristic	Performance Requirement 士 4 V		
Maximum Signal/DC Voltage			
Input Resistance	1. 50 Ω ±0.5 Ω		
	2. Direct - Typically >1 MΩ		

Mechanical and Environmental Characteristics

Characteristic	Performance Requirement		
Module Size			
Height	71.05 mm (2.9 in)		
Width	23.28 mm (0.95 in)		
Depth	91.39 mm (3.8 in)		
Module Weight	314 grams (11 oz)		
Ambient Temperature			
Operating	0° to 50° C (32° to 122° F)		
Non-Operating	-40° to 75° C (-40° to 167° F)		

Verification Procedures

Equipment Required

11801, 11802, or CSA 803 Mainframe

"-1413", followed by a serial number.

- DMM, 31/2 digit min.
- Test Leads for DMM

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	Step 1:	Connect DMM leads to center contact and ground of the 50 $\boldsymbol{\Omega}$ input.
	Step 2: 50.5 Ω.	Check that input resistance is between the limits of 49.5 Ω and $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
		Connect DMM leads to center contact of the 50 Ω input and pin 20 ar connector.
	Step 4:	Check for continuity.
		Connect DMM leads to center contact of DIRECT input and pin 29 of connector.
	Step 6:	Check for continuity.
		Install the Calibration Head into one of the sampling head ments of the mainframe.
	•	Turn the mainframe on. Note that error reports in the Self Test and d Diagnostics (time base error; missing strobe sense), are normal for ration.
	Step 9:	Exit diagnostics and go to the UTILITIES major menu. Press Identify.

Step 10: Check that the slot with the Calibration Head in it, is identified as