33K4-5-471-/ HEWLETT-PACKARD 85023C

DESCRIPTION

The Hewlett-Packard Model 85023C type-N 50-ohm System Verification Kit is a set of precision components used to perform a System Verification procedure for the 8756S Scalar Network Analyzer System. The procedure checks system installation and verifies certain repairs, or can be used as a daily functional test. It does not fully test instrument specifications. The System Verification program simply measures the return loss (20 dB) and transmission loss of a 10 dB attenuator, which is included in the kit. The 8756S Operating and Service Manual includes instructions for running this test. The System Verification Kit can also be used for normal calibration of a network analyzer such as the Model 8756A or the Model 8755C. The calibration procedure is provided in the Operating and Service Manual for the network analyzer. The kit consists of a short circuit, a shielded open circuit, a 50-ohm termination, the 10-dB fixed attenuator, and a type-N(m) to type-N(m) adapter. These devices are illustrated in Figure 1.

CARE OF COMPONENTS

The components of this System Verification Kit are precision devices and should be used and stored with care to maintain their integrity. When connecting and disconnecting the components, take care not to bump or scratch the mating surfaces. To mate type-N connectors, always turn only the nut of the male connector. Do not over-tighten the connectors — excessive torque will deform the mating surfaces.

Use lintless material and/or a firm bristled brush for cleaning the connectors and their mating surfaces. If a cleaning fluid is needed, use two parts isopropyl alcohol mixed with one part deionized water.

The Model 85023C type-N connectors mate with all type-N connectors whose dimensions conform to MIL-C-71B and MIL-C-39012. Do not mate a 50-ohm male connector with a 75-ohm female connector, as damage will result.

The devices in this System Verification Kit should be characterized by a calibration standards laboratory once each year or after approximately 3000 to 5000 connections. If you wish Hewlett-Packard to perform this service, contact the nearest Hewlett-Packard Sales and Service Office listed in the HP Catalog, or the nearest regional office listed on the back, page of this Operating Note.

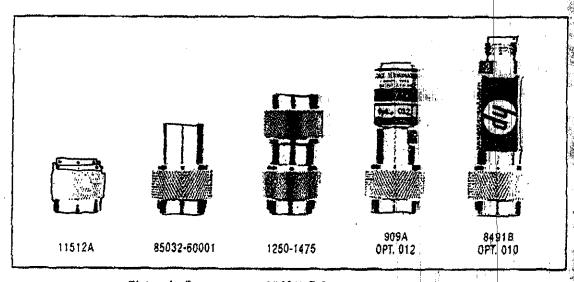


Figure 1. Components of 85023C System Verification Kit

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CONTENTS

Qty	Description		Part or al Number	5 j
1	Type-N 50-Ohm Short	115124		1
1 1	Type-N 50-Ohm Shielded Open Circuit	85032-0	50X)O1	
1 1	Type-N 50-Ohm Termination	909A C	Dpt. 012	4
1	Type-N 10-dB Fixed Attenuator	1	Opt. 010	isi
1	Type-N(m) to Type-N(m) Adapter	1250-14		į
1 1	Instrument Case	9211-1:		i
1 1	Instrument Case Liner	85023-8		.4

Table 1. Operating Characteristics

Frequency Range:	DC to 18 GHz		-
Characteristic Impedance:	50 Ohms Nominal		
Connectors:	Precision Type-N(r	n)	
SWR; 909A Opt, 012 Termination:	0 to 4 GHz 4 to 12,4 GHz 12,4 to 18 GHz	1,06 1.11 1.30	
8491B Opt. 010 Attenuator:	0 to 8 GHz 8 to 12.4 GHz 12.4 to 18 GHz	1.2 1.3 1.5	
Attenuation Accuracy: 84918 Opt. 810 Attenuator:	±.6 dB		,
Shipping Weight:	1.1 kg (3 1b)		

OTHER EQUIPMENT AVAILABLE

The following Systems Verification Kits are also available for use with devices having APC-7[®] * or APC-3.5 connectors or 75-ohm characteristic impedance;

HP Model Number
85023A
85023B
85023 D

^{*}APC-7⁶⁶ is a U.S. registered trademark of the Bunker-Ramo Corporation.