

### 1. GENERAL INFORMATION

2. The Hewlett-Packard Model 11549A Power Splitter is a two-resistor type splitter that is especially useful for VHF applications when used for source leveling or ratio measurements with vector voltmeters such as the HP Model 8405A. This manual provides instructions and information for operation and ordering replaceable parts for the power splitter.

3. On the rear cover of this manual, below the manual part number, is a "Microfiche" part number. This number may be used to order a 4 x 6-inch microfilm transparency of the manual.

### 4. Specifications

5. The 11549A Power Splitter specifications are listed in Table 1. These specifications are the performance standards or limits against which the instrument may be tested. Table 2 lists Supplemental Characteristics. These are not specifications, but typical operating characteristics.

Table 1. Specifications

<b>Frequency Range:</b>	DC to 1000 MHz
<b>Maximum Input Power:</b>	<0.5 watts
<b>Connectors:</b>	Type N female on all ports
<b>Dimensions:</b>	86.4 mm long, 53.3 mm wide, 25.4 mm deep (3.4 in. x 2.1 in. x 1 in.)
<b>Weight:</b>	.204 kg (7.2 oz)
<b>Shipping Weight:</b>	.340 kg (12 oz)

Table 2. Supplemental Characteristics

<b>Insertion Loss:</b>	6 dB nominal (input to either output)
<b>Equivalent Output SWR (RATIO or Leveling):</b>	Typically $\leq 1.67$ ( $\geq 12$ dB Return Loss)

### 6. Description

7. The Model 11549A Power Splitter is a two-resistor power splitter for use in measurement

systems where one output arm is an active arm. The active arm may be either a leveling loop or the reference channel of a network analyzer. Figure 1 shows the schematic of the HP 11549A Power Splitter.

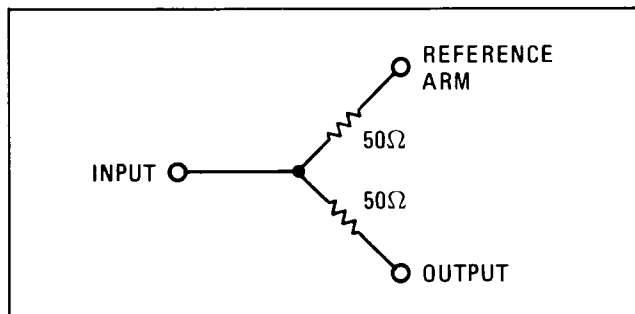


Figure 1. Model 11549A Schematic

### 8. INSTALLATION/OPERATION

**CAUTION**

**Do not exceed maximum input power of 0.5 watts or damage to the power splitter may occur.**

### 9. Initial Inspection

10. Inspect the shipping container for damage. If the shipping container or cushioning material is damaged, it should be kept until the contents of the shipment have been checked for completeness and the instrument has been checked mechanically and electrically. The contents of the shipment should be as shown on the front cover of this manual. If the contents are incomplete or if there is mechanical damage or defect, notify the nearest Hewlett-Packard office. If the shipping container is damaged, or the cushioning material shows signs of stress, notify the carrier as well as the Hewlett-Packard office. Keep the shipping materials for carrier's inspection. The HP office will arrange for repair or replacement without waiting for claim settlement.

### 11. Environment

12. The operating environment should be within the following limitations:

- a. Temperature: 0°C to +55°C
- b. Humidity: <95% relative
- c. Altitude: <25,000 feet (<7620 meters)