

HP 10240B

Blocking Capacitor

The HP 10240B Blocking Capacitor is a probing accessory that provides ac-coupling while maintaining a 50 ohm system. This capacitor is designed for use with the model HP 10020A Resistive Divider Kit, and the Keysight 54006A Resistive Divider Probe Kit, but may be used with any probe that must be terminated in 50 Ω .

- * Provides ac-coupling
- * Maintains a 50 ohm system
- * Capacitance: 0.18 μF
- * Maximum voltage: +/-200 Vdc
- * Sag: Approximately 10% per μs (1% in 100 ns)
- * Connectors: BNC
- * Reflection: less than 12% when driven by a 150 ps risetime step in a 50 ohm system
- * Capacitance: 0.18 μF
- * Maximum voltage: +/-200 Vdc
- * Sag: Approximately 10% per μs (1% in 100 ns)
- * Connectors: BNC
- * Reflection: less than 12% when driven by a 150 ps risetime step in a 50 ohm system

OPERATING NOTE / JAN 1969

1. DESCRIPTION.

2. The HP Model 10240B Blocking Capacitor (see Figure 1) is a signal probing accessory designed for use with the Model 10020A Resistive Divider Kit. The Model 10240B is used to provide AC coupling while maintaining a 50-ohm system. Specifications for the Model 10240B are listed in Table 1.

Table 1. Specifications

CAPACITANCE	0.18 UF
MAXIMUM VOLTAGE . . .	±200 volts dc
Effect on response of Model 10020A is negligible.	

3. CONNECTIONS.

4. When the Model 10240B is used in conjunction with the Model 10020A, it must be connected between the 50-ohm input of the test instrument and the output BNC connector of the Model 10020A.

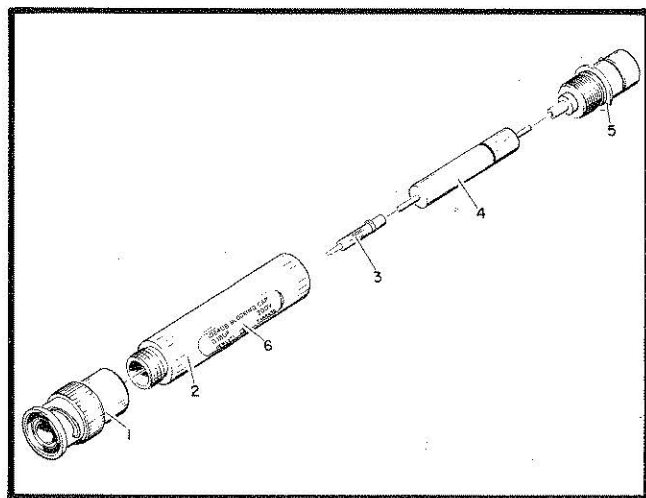


Figure 2. Model 10240B Parts

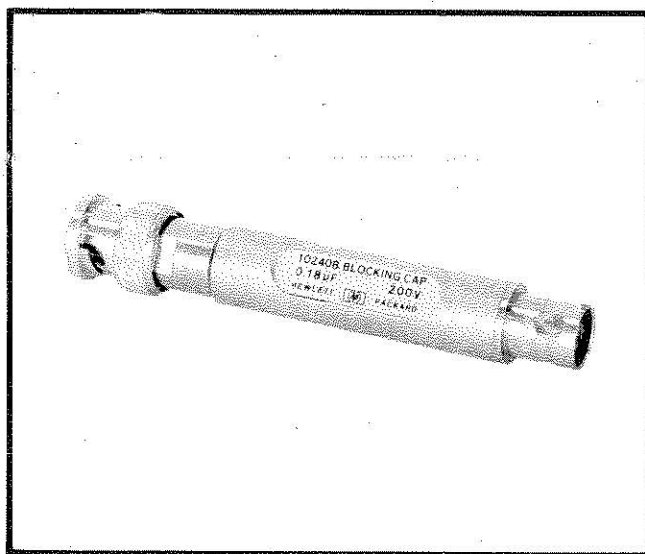


Figure 1. Model 10240B Blocking Capacitor

5. REPLACEABLE PARTS

6. Replaceable parts for the Model 10240B are shown in an exploded view (Figure 2). Each part shown is keyed to the parts list (Table 2) by a number and complete HP Parts Number. A list of Sales/Service Office addresses is listed at the rear of this Operating Note.

Table 2. Replaceable Parts

Item	Description	HP Part Number
1.	Jack, Bulkhead	1250-0083
2.	Body	10240-27701
3.	Pin, Male BNC	1250-0089
4.	Capacitor, 0.18 UF	0160-3275
5.	Plug, Cable	1250-0052
6.	Label	7120-2049

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The Hewlett-Packard Company certifies that this instrument was thoroughly tested and inspected and found to meet its published specifications when it was shipped from the factory. The Hewlett-Packard Company further certifies that its calibration measurements are traceable to the U.S. National Bureau of Standards to the extent allowed by the Bureau's calibration facility.

WARRANTY AND ASSISTANCE

This Hewlett-Packard product is warranted against defects in materials and workmanship. This warranty applies for one year from the date of delivery, or, in the case of certain major components listed in the operating manual, for the specified period. We will repair or replace products which prove to be defective during the warranty period provided they are returned to Hewlett-Packard. No other warranty is expressed or implied. We are not liable for consequential damages.

Service contracts or customer assistance agreements are available for Hewlett-Packard products that require maintenance and repair on-site.

For any assistance, contact your nearest Hewlett-Packard Sales and Service Office. Addresses are provided at the back of this manual.