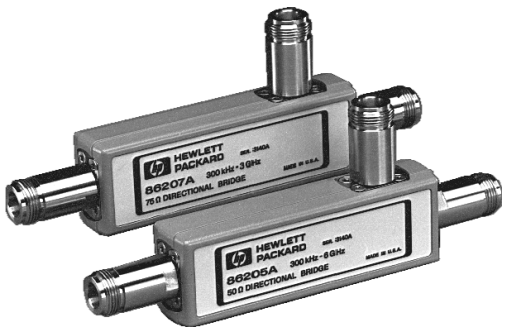



HP 86205A/86207A

## HP 86205A/86207A RF Bridges

The HP 86205A/86207A high directivity RF bridges offer unparalleled performance in a variety of general-purpose applications. They are ideal for accurate reflection measurements and signal leveling applications.

### Specifications Summary

| | HP 86205A | HP 86207A |
|---|---|---|
| **Impedance** | 50 Ω | 75 Ω |
| **Freq. Range** | 300 kHz to 6 GHz | 300 kHz to 3 GHz |
| **Directivity** | 30 dB, 0.3 MHz to 5 MHz | 30 dB, 0.3 MHz to 5 MHz |
| | 40 dB, 5 MHz to 2 GHz | 40 dB, 5 MHz to 1.3 GHz |
| | 30 dB, 2 GHz to 3 GHz | 35 dB, 1.3 GHz to 2 GHz |
| | 20 dB, 3 GHz to 5 GHz (typ.) | 30 dB, 2 GHz to 3 GHz |
| | 16 dB, 5 GHz to 6 GHz (typ.) | |
| **Coupling Factor** | (< 3 GHz) 16.0 dB, + 0.15 dB/GHz | |
| | (> 3 GHz) 16.5 dB, – 0.20 dB/GHz | |
| Insertion Loss | 1.5 dB, + 0.1 dB/GHz | |
| Maximum Input | 25 dBm | |
| RF Connectors | 50 Ω Type-N (female) | 75 Ω Type-N (female) |

**Physical Characteristics**
**Size:** 93 mm H x 160 mm W x 23 mm D (3.7 in x 6.3 in x 1 in)
**Weight:** Net, 0.57 kg (1.3 lb); shipping, 1.8 kg (4 lb)

## HP 11850C/D Three-Way Power Splitters

### Specifications Summary

| | HP 11850C | HP 11850D |
|---|---|---|
| **Impedance** | 50 Ω | 75 Ω |
| **Frequency Range** | DC to 3 GHz | DC to 2 GHz |
| **Tracking** | ±0.25 dB, ±3° | ±0.2 dB, ± 2.5° |
| **Equivalent Source Match** | 30 dB at 1.3 GHz | 30 dB at 1.3 GHz |
| (ratio or leveling) | 20 dB at 3 GHz | 20 dB at 3 GHz |
| **Nominal Insertion Loss** | 9.5 dB + 1 dB/GHz | 7.8 dB |
| **Input Port Match** | | |
| DC to 1.3 GHz | 20 dB | 20 dB |
| 1.3 GHz to $F_{max}$[1] | 10 dB | 10 dB |
| **RF Connectors** | | |
| RF Input: (female) | 50 Ω Type-N | 50 Ω Type-N |
| All Others: (female) | 50 Ω Type-N | 75 Ω Type-N |

[1] $F_{max}$ is the upper frequency limit of the associated power splitter.

## HP 11851B RF Cable Kit

This kit includes three 610-mm (24-in) 50 Ω cables phase matched to 4° at 1.3 GHz and one cable 860 mm (34-in). Connectors are type-N (male).

## HP 11852B 50 Ω /75 Ω Minimum Loss Pad

The HP 11852B is a low SWR minimum loss pad required for measurements on 75 Ω devices with the HP 8753.
**Frequency Range:** DC to 3.0 GHz
**Insertion Loss:** 5.7 dB
**Return Loss:** 75 Ω: typically ≥ 30 dB, 50 Ω: typically ≥ 26 dB
**Maximum Input Power:** 250 mW (+24 dBm)
**RF Connectors:** 50 Ω type-N (f) and 75 Ω type-N (m) standard, 50 Ω type-N (m) and 75 Ω type-N (f) Option 004

## Type-N Accessory Kits

Each kit contains a type-N (female) short, a type-N (male) short, two type-N (male) barrels, two type-N (female) barrels, and a storage case.

### HP 11853A 50 Ω Type-N Accessory Kit

The HP 11853A accessory kit furnishes the RF components required for measurement of devices with 50 Ω type-N connectors using the HP 11850C, 85044A, 85046A, or 85047A.

### HP 11855A 75 Ω Type-N Accessory Kit

The HP 11855A accessory kit furnishes the RF components required for measurement of devices with 75 Ω type-N connectors using the HP 11850D, 85044B, or 85046B. This kit also contains a 75 Ω type-N (male) termination.

## BNC Accessory Kits

The BNC accessory kit contains two type-N (male) to BNC (female) adapters, two type-N (male) to BNC (male) adapters, two type-N (female) to BNC (female) adapters, two type-N (female) to BNC (male) adapters, a BNC (male) short, and a storage case.

### HP 11854A 50 Ω BNC Accessory Kit

The HP 11854A accessory kit furnishes the RF components required for measurement of devices with 50 Ω BNC connectors using the HP 11850C, 85044A, 85046A, or 85047A.

### HP 11856A 75 Ω BNC Accessory Kit

The HP 11856A furnishes RF components required for measurement of devices with 75 Ω BNC connectors using the HP 11850D, 85044B, or 85046B. This kit also contains a 75 Ω BNC (male) termination.

## Test Port Cables

### HP 11857D 50 Ω APC-7 Test Port Cables

The HP 11857D includes two precision 61-cm (24-in) cables, phase matched to 2° at 1.3 GHz for use with the HP 8753D/E, 85046A or 85047A S-parameter test sets. Connectors are 50 Ω APC-7.

### HP 11857B 75 Ω Type-N Test Port Cables

The HP 11857B includes two precision 61-cm (24-in) cables, phase matched to 2° at 1.3 GHz for use with the HP 8753D/E Option 075 or HP 85046B S-parameter test set. One cable has 75 Ω type-N (male) connectors on both ends; the other has one type-N (male) and one type-N (female) connector.

## Transit Cases

HP offers a complete line of sturdy transit cases that protect your instrument from shock, vibration, moisture, impact, and contamination, providing a secure enclosure for shipping. Model 9211-2657 fits the HP 8753E and model 9211-2656 fits the HP 8752C.

## Calibration Kits

The calibration kits in the HP 8753 family contain precision standards used in accuracy enhancement procedures to characterize the systematic errors of an HP 8753 measurement system.

### HP 85031B 7-mm Calibration Kit

The HP 85031B calibration kit contains a set of precision 7-mm fixed terminations, and a one-piece open/short circuit used to calibrate the HP 8753 and its 50 Ω test sets for measurement of devices with precision 7-mm connectors. This kit is specified 300 kHz to 6 GHz.