

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
<b>Impedance</b>	50 Ω	75 Ω
<b>Freq. Range</b>	300 kHz to 6 GHz	300 kHz to 3 GHz
<b>Directivity</b>	30 dB, 0.3 MHz to 5 MHz 40 dB, 5 MHz to 2 GHz 30 dB, 2 GHz to 3 GHz 20 dB, 3 GHz to 5 GHz (typ.) 16 dB, 5 GHz to 6 GHz (typ.)	30 dB, 0.3 MHz to 5 MHz 40 dB, 5 MHz to 1.3 GHz 35 dB, 1.3 GHz to 2 GHz 30 dB, 2 GHz to 3 GHz
<b>Coupling Factor</b>	(< 3 GHz) 16.0 dB, +0.15 dB/GHz (> 3 GHz) 16.5 dB, -0.20 dB/GHz	
<b>Insertion Loss</b>	1.5 dB, +0.1 dB/GHz	
<b>Maximum Input</b>	25 dBm	
<b>RF Connectors</b>	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
<b>Impedance</b>	50 Ω	75 Ω
<b>Frequency Range</b>	DC to 3 GHz	DC to 2 GHz
<b>Tracking</b>	±0.25 dB, ±3°	±0.2 dB, ±2.5°
<b>Equivalent Source Match</b> (ratio or leveling)	30 dB at 1.3 GHz 20 dB at 3 GHz	30 dB at 1.3 GHz 20 dB at 3 GHz
<b>Nominal Insertion Loss</b>	9.5 dB + 1 dB/GHz	7.8 dB
<b>Input Port Match</b>		
DC to 1.3 GHz	20 dB	20 dB
1.3 GHz to F <sub>max</sub> <sup>1</sup>	10 dB	10 dB
<b>RF Connectors</b>		
RF Input: (female)	50 Ω Type-N	50 Ω Type-N
All Others: (female)	50 Ω Type-N	75 Ω Type-N

<sup>1</sup>F<sub>max</sub> 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, two type-N (male) 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.