

### Agilent 85039B calibration kit, Type-F

The Agilent 85039B 75  $\Omega$  type-F calibration kit is used to calibrate Agilent 8752C, Agilent 8753, and Agilent 8712E network analyzer systems for measurements of components with 75  $\Omega$  type-F connectors up to 3 GHz.

#### Electrical specifications

| 75 $\Omega$ Type-F device                    | Specifications                                 | Frequency             |
|--|--|-----------------------|
| <b>Male load, female load:</b>               | Return loss $\geq 45$ dB ( $\rho \leq 0.006$ ) | dc to $\leq 1$ GHz    |
|  | Return loss $\geq 38$ dB ( $\rho \leq 0.013$ ) | $> 1$ to $\leq 3$ GHz |
| <b>Male short<sup>1</sup>, female short:</b> | $\pm 0.60^\circ$ from nominal                  | dc to $\leq 1$ GHz    |
|  | $\pm 1.00^\circ$ from nominal                  | $> 1$ to $\leq 3$ GHz |
| <b>Male open<sup>1</sup>, female open:</b>   | $\pm 0.55^\circ$ from nominal                  | dc to $\leq 1$ GHz    |
|  | $\pm 1.30^\circ$ from nominal                  | $> 1$ to $\leq 3$ GHz |

#### Adapters

|                         |  |                       |
|-------------------------|--|-----------------------|
| <b>Type-F to Type-F</b> | Return loss $\geq 40$ dB ( $\rho \leq 0.013$ ) | dc to $\leq 1$ GHz    |
|                         | Return loss $\geq 32$ dB ( $\rho \leq 0.025$ ) | $> 1$ to $\leq 3$ GHz |
| <b>Type-N to Type-F</b> | Return loss $\geq 38$ dB ( $\rho \leq 0.013$ ) | dc to $\leq 1$ GHz    |

<sup>1</sup>The specifications for the open and short are given as allowed deviation from the nominal model as defined in the standard definitions. See Table A-3



#### Accessories

### Agilent 86211A 75 ohm Type-N to Type-F adapter kit

Adapter kit provides Type-N to Type-F adapters necessary when measuring Type-F devices on a network analyzer with 75 ohm Type-N test ports.

#### Adapter kits

|               |  |
|---------------|--|
| <b>86211A</b> | <b>75 ohm Type-N to Type-F adapter kit</b> |
|               | Type-F (f) to Type-F (f)                   |
|               | Type-F (m) to Type-N (f)                   |
|               | Type-F (m) to Type-N (m)                   |

| Part Number  | Description                                 | 85039B | Opt 00M | Opt 00F |
|--|---|--------|---------|---------|
| <b>85039-60007</b>   | 75 ohm Type-F male load                     | X      | X       |         |
| <b>85039-60008</b>   | 75 ohm Type-F male short                    | X      | X       |         |
| <b>85039-60009</b>   | 75 ohm Type-F male open                     | X      | X       |         |
| <b>85039-60004</b>   | 75 ohm Type-F female load                   | X      |         | X       |
| <b>85039-60003</b>   | 75 ohm Type-F female load                   | X      |         | X       |
| <b>85039-60005</b>   | 75 ohm Type-F female load                   | X      |         | X       |
| <b>85039-60006</b>   | 75 ohm Type-F male to male adapter          | X      | X       |         |
| <b>85039-60002</b>   | 75 ohm Type-F female to female adapter      | X      |         | X       |
| <b>85039-60013</b>   | 75 ohm Type-F female to Type-N male adapter | X      |         |         |
| <b>85039-60011</b>   | 75 ohm Type-F male to Type-N female adapter | X      |         |         |
| <b>Additional adapters available from Agilent but not included in the cal kit.</b> |   |        |         |         |
| <b>85039-60010</b>   | 75 ohm Type-F male to Type-N male           |        |         |         |
| <b>85039-60012</b>   | 75 ohm Type-F male to Type-F female         |        |         |         |
| <b>85039-60014</b>   | 75 ohm Type-F female to Type-N female       |        |         |         |