

PRECISION CALIBRATION KITS

WAVEGUIDE HP8510A/B/C AND HP8722A

Features

- For Use With 2.4mm Test Sets and Cables



Model U7003A

Description

Maury Microwave Corporation has developed a complete line of precision calibration kits specifically for the purpose of calibrating Hewlett Packard 8510A/B/C (using 2.4mm test sets HP8516A and HP8517A) and HP8722A vector network analyzers (VNA's) for making measurements from 2.6 to 50 GHz in rectangular waveguide.

These kits provide all the necessary devices for properly and accurately calibrating the appropriate VNA. Each kit consists of the following precision hardware items and software medium in an attractive wooden foam-lined instrument case and operating instructions.

Kit Contents

- 1 ea. — adapter, waveguide to 2.4mm female (right angle launch)
- 1 ea. — adapter, waveguide to 2.4mm male (right angle launch)
- 1 ea. — sliding termination
- 1 ea. — fixed termination
- 1 ea. — straight section
- 1 ea. — 1/8 wavelength offset short
- 1 ea. — 3/8 wavelength offset short
- 1 set — flange mounting hardware (including indexing pins)
- 1 ea. — fixed short (reference plane)
- 1 ea. — data medium contains calibration constants

All devices in a kit are provided with precision indexing holes in the flanges for excellent measurement repeatability. Flange interface information can be readily provided on request.

See page 2 for footnotes.



Available Models

Kit Model	Waveguide Designation	Frequency Range (GHz)	Flange Data
X7003A(*)	WR90	8.2 — 12.4	MPF90B (mates with UG39/U) ²
M7003A(*)	WR75	10.0 — 15.0	MPF75B ³
P7003A(*)	WR62	12.4 — 18.0	MPF62 (mates with UG419/U) ²
N7003A(*)	WR51	15.0 — 22.0	MPF51 ³
K7003A(*)	WR42	18.0 — 26.5	MPF42 (mates with UG595/U) ²
U7003A(*)	WR28	26.5 — 40.0	MPF28 (mates with UG599/U) ²
J7003A(*)	WR22	33.0 — 50.0	MPF22 (mates with UG383/U) ²

Accessories Available

If required to mate with CPR and/or CMR type flanges, refer to data sheets 3A-162 and 3A-166 for in-band or flange adapters available.

(*) Insert option number as follows:

- 13 — provided with cartridge containing calibration constants for HP8510A/B.
- 14 — provided with 3-1/2 disk containing calibration constants for HP8510C.
- 15 — provided with 3-1/2 disk containing calibration constants for HP8722. (**Note:** HP9122C, single or dual, external disk drive is also required).
- 28 — provided with 3-1/2 disk containing cal constants for Anritsu Wiltron 360.
- 29 — provided with 3-1/2 disk containing cal constants for Anritsu Wiltron "37000 series".

¹ High precision sliding termination 314 series are provided in all kits.

² This flange is equivalent in configuration to the military designation shown, however, it is a precision flange and contains precision indexing holes.

³ These MPF flanges are equivalent to industry standards in these bands.