

WAVEGUIDE VNA CALIBRATION KITS

Economy Kits

- Agilent 8510A/B/C
- Agilent 8719/20/22
- Anritsu 360
- Anritsu 37000
- 3.5mm and 2.92mm (K)
Connector Test Ports/Cables



Description

The 7006A series are economical, cost effective kits designed to provide accurate calibration of a wide range of vector network analyzers for measurements in rectangular waveguide at frequencies from 2.6 to 40.0 GHz (WR284 through WR28). The 7006 series calibration kits are applicable to the Agilent 8510A/B/C, Agilent 8719/20/22, and the Anritsu 360/37000 series analyzers.

Kit Composition

As shown in the adjacent table, the 7006 model series calibration kits provide all the necessary devices for accurately calibrating the listed VNA. Kits for use in standard rectangular waveguide are supplied with an end launch adapter for convenience in connecting to the test set². The sliding terminations used in these kits are the precision 313 series. These terminations, combined with the $1/4\lambda$ shim approach, provide a cost effective means of achieving an accurate calibration.

All kit component flanges have precision indexing holes for excellent measurement repeatability (indexing pins are provided).

Test Port and Cable Connectors

These kits are configured for use with VNA test sets and test cables utilizing 3.5mm or 2.4mm connectors.

Quantity	Description
1	Adapter, end launch, NMD 3.5mm female ^{1,2}
1	Adapter, right angle launch, 3.5mm male ²
1	Sliding termination
1	$1/4\lambda$ waveguide section (shim)
1	Fixed (reference plane) short ³
1	Flange hardware including indexing pins (set)
1	Data medium containing the calibration constants ⁴
1	Instrument case
1	Operating instructions

¹ This is replaced by a right angle adapter to a standard 3.5mm female connector in all double ridged waveguide kits.

² WR34 and WR28 are supplied with 2.4mm female right angle launch adapters.

³ Two (2) fixed shorts are provided with Anritsu kits.

⁴ Tape cartridge for the Agilent 8510A/B; 3-1/2" disk for the Agilent 8510C, Agilent 8719/20/22, and Anritsu 360/37000.



Available Models

Model	Waveguide Designation	Frequency Range (GHz)	Flange Data	
			Designation	Mates With
S7006A(*)	WR284	2.60 — 3.95	MPF284C	UG53/U
E7006A(*)	WR229	3.30 — 4.90	MPF229B	CPR
G7006A(*)	WR187	3.95 — 5.85	MPF187C	UG149A/U
F7006A(*)	WR159	4.90 — 7.05	MPF159B	CPR
C7006A(*)	WR137	5.85 — 8.20	MPF137C	UG344/U
H7006A(*)	WR112	7.05 — 10.00	MPF112B	UG51/U
X7006A(*)	WR90	8.20 — 12.40	MPF90B	UG39/U
M7006A(*)	WR75	10.00 — 15.00	MPF75B	See ⁵
N7006A(*)	WR51	15.00 — 22.00	MPF51	MPF51
P7006A(*)	WR62	12.40 — 18.00	MPF62	UG419/U
K7006A(*)	WR42	18.00 — 26.50	MPF42	UG595/U
Q7006A(*)	WR34	22.00 — 33.00	MPF34	UG599/U
U7006A(*)	WR28	26.50 — 40.00	MPF28	UG599/U

(*) Insert option number to designate VNA as follows:

- 13 — Agilent 8510A/B
- 14 — Agilent 8510C
- 15 — Agilent 8719/20/22
- 18 — Anritsu 360
- 19 — Anritsu 37000

⁵ Equivalent to industry standards in these bands.