

VNA AND VNMS CALIBRATION KITS



3753LF

The Anritsu Calibration Kits contain all the precision components and tools required to calibrate your VNA or VNMS for 12-term error-corrected measurements in the connector style of your choice. Components are included for calibrating male and female test ports as required. The kits support calibration with opens, shorts, and broadband loads. Option 1 adds sliding terminations and a pin depth gauge where required.

The following kits are for use with 37XXX Lightning VNAs.

3650 SMA/3.5 mm Calibration Kit consisting of:

- 34ASF50-2 Female Adapter (2)
- 33SFSF50 Female-Female Adapter (2)*
- 33SS50 Male-Male Adapter*
- 28S50-2 Broadband Male Termination (2)
- 28SF50-2 Broadband Female Termination (2)
- 33SSF50 Male-Female Adapter (2)*
- 24S50 Male Open
- 24SF50 Female Open
- 23S50 Male Short
- 23SF50 Female Short
- 34AS50-2 Male Adapter (2)
- Connector Thumb Wheel (4)
- 01-201 Torque Wrench
- 01-210 Reference Flat
- 01-222 Pin Depth Gauge
- 01-223 Pin Depth Gauge
- Calibration coefficients diskette

Option 1

Adds the following:

- 01-212 Female Flush Short
- 01-211 Male Flush Short
- 17SF50 Female Sliding Termination
- 17S50 Male Sliding Termination

3651 GPC-7 Calibration Kit consisting of:

- 28A50-2 Broadband Termination (2)
- 24A50 Open
- 23A50 Short
- 01-200 Torque Wrench
- 01-221 Collet Extractor Tool and 4 Collets
- Calibration coefficients diskette



3651, Option 1

Option 1

Adds the following:

- 17A50 Sliding Termination
- 01-210 Reference Flat
- 01-220 Pin Depth Gauge

3652 K Connector® Calibration Kit consisting of:

- 34AKF50 Female Adapter (2)
- 33KFKF50B Female-Female Adapter (2)*
- 33KK50B Male-Male Adapter*
- 28K50 Broadband Male Termination (2)
- 28KF50 Broadband Female termination (2)
- 33KKF50B Male-Female Adapter (2)*
- 24K50 Male Open
- 24KF50 Female Open
- 23K50 Male Short
- 23KF50 Female Short
- 34AK50 Male Adapter (2)
- 01-201 Torque Wrench
- 01-210 Reference Flat
- 01-222 Pin Depth Gauge
- 01-223 Pin Depth Gauge
- Calibration coefficients diskette
- Connector thumb wheel (4)

Option 1

Adds the following:

- 17KF50 Female Sliding Termination
- 17K50 Male Sliding Termination
- 01-212 Female Flush Short
- 01-211 Male Flush Short

3653 Type N Calibration Kit consisting of:

- 23NF50 Female Short
- 23N50 Male Short
- 24NF50 Female Open
- 24N50 Male Open
- 28N50-2 Broadband Male Termination (2)
- 28NF50-2 Broadband Female Termination (2)
- 34AN50-2 Male Adapter (2)
- 34ANF50-2 Female Adapter (2)
- 01-213 Reference Gauge
- 01-224 Pin Depth Gauge
- Calibration coefficients diskette

VNA AND VNMS CALIBRATION KITS

3654B V Connector® Calibration Kit consisting of:

- 23V50B-5.1 Male Short 5.1mm
- 23VF50B-5.1 Female Short 5.1mm
- 24V50B Male Open
- 24VF50B Female Open
- 28V50B Male Broadband Termination (2)
- 28VF50B Female Broadband Termination (2)
- 17VF50B Female Sliding Termination
- 17V50B Male Sliding Termination
- 33VV50B Male-Male Adapter*
- 33VVF50B Female-Female Adapter (2)*
- 33VVF50B Male-Female Adapter (2)*
- Calibration coefficients diskette
- Connector thumb wheel (4)
- 01-201 Torque Wrench
- 01-210 Reference Flat
- 01-322 Pin Depth Gauge
- 01-323 Female Adapter for pin gauge
- 01-204 Adapter Wrench
- 01-312 Male Flush Short
- 01-311 Female Flush Short

3655 Series Waveguide Calibration Kit

The 3655 Series Calibration Kit contains all of the precision components and tools required to calibrate your VNA for 12-term error-corrected measurements of test devices with the appropriate waveguide designation. Components are included for calibrating both module ports. The kit supports calibration with offset shorts and broadband loads. Option 1 adds a sliding termination.

Consisting of:

- Short, Flush (2)
- Offsets, 1/8 and 3/8 Wavelength
- Terminations, Fixed (2)
- Test Port Sections (2)

Option 1

Adds the following:

- Sliding Termination

3656 WI Calibration Kit consisting of:

- 23W50-1 Male Offset Short (2.02 mm)
- 23W50-2 Male Offset Short (2.65 mm)
- 23W50-3 Male Offset Short (3.180 mm)
- 24W50 Male Open (1.510 mm)
- 28W50 Male Broadband Termination
- 23WF50-1 Female Offset Short 1 (2.02 mm)
- 23WF50-2 Female Offset Short 2 (2.65 mm)
- 23WF50-3 Female Offset Short 3 (3.180 mm)
- 28WF50 Female Broadband Termination
- 24WF50 Female Open (1.930 mm)
- 33WSC50 Fixed Male SC Connector
- 33WFSC50 Fixed Female SC Connector
- Interchangeable Sliders, SC Connectors
- Locking Keys, SC Connectors
- 01-402 Interchange Adapter Fixed Male
- 33WWF50 Male-Female Adapter
- 33WW50 Male-Male Adapter
- 33WFWF50 Female-Female Adapter
- 01-504 6 mm Torque Wrench
- 01-505 6-7 mm End Wrench
- 18WFWF50-1B Stepped Impedance ThruLine (Verification Device)
- 18WFWF50-1 50Ω Matched ThruLine (Verification Device)
- Calibration coefficients diskette

* Phase Equal Adapters

The following kits are for use with MS462XX Scorpion VNAs.

3750R SMA/3.5 mm 9 GHz Calibration Kit consisting of:

- 23LF50 Female Short
- 23L50 Male Short
- 24LF50 Female Open
- 24L50 Male Open
- 28L50R Male Termination (2)
- 28LF50R Female Termination (2)
- 01-204 Adapter wrench
- Calibration coefficients diskette

3751R GPC-7 9 GHz Calibration Kit consisting of:

- 23A50 Short
- 24A50 Open
- 28A50R Termination (2)
- Calibration coefficients diskette

3753R Type N 9 GHz Calibration Kit consisting of:

- 23NF50 Female Short
- 24NF50 Female Open
- 24N50 Male Open
- 28NF50R Female Termination (2)
- 28N50R Male Termination (2)
- 23N50 Male Short
- Calibration coefficients diskette

3753-75R 75 Ω Type N 3 GHz Calibration Kit consisting of:

- 23N75-3 Male Short
- 23NF75-3 Female Short
- 24N75-3 Male Open
- 24NF75-3 Female Open
- 28N75-3 Male Termination (2)
- 28NF75-3 Female Termination (2)
- 34NN75-3 Male-Male Adapter
- 34NNF75-3 Male-Female Adapter
- 34NFN75-3 Female-Female Adapter
- Calibration coefficients diskette

Ordering information

Please specify model/order number, name and quantity when ordering.

Model/Order No.	Name
	Calibration kits
3650	SMA/3.5 mm calibration kit
Option 1	Adds sliding terminations
3651	GPC-7 calibration kit
Option 1	Adds sliding terminations
3652	K Connector® calibration kit
Option 1	Adds sliding terminations
3653	Type N calibration kit
Option 1	Adds sliding terminations
3654B	V Connector® calibration kit with sliding terminations
3655E	WR12 Waveguide calibration kit
Option 1	Adds sliding terminations
3655F	WR08 Waveguide calibration kit
Option 1	Adds sliding terminations
3655V	WR15 Waveguide calibration kit
Option 1	Adds sliding terminations
3655W	WR10 Waveguide calibration kit
Option 1	Adds sliding terminations
3656	W1 calibration kit
3750R	SMA/3.5 mm 9 GHz calibration kit
3751R	GPC-7 9 GHz calibration kit
3753R	Type N 9 GHz calibration kit
3753-75R	75 Ω Type N 3 GHz calibration kit

***Model 3654/
3654B Cali-
bration Kit***

The V Connector kit (Figure 1-5) includes in the following items:

- Index 1.** 17VF50B female sliding termination
- Index 2.** 17V50B male sliding termination
- Index 3.** 33VVF50 male-female adapter (2)
- Index 4.** Calibration software, 2360-54B
- Index 5.** 28V50B male broadband termination (2)
- Index 6.** 28VF50B female broadband termination (2)
- Index 7.** 24V50B male open
- Index 8.** 24VF50B female open
- Index 9.** 23V50B-5.1 male short 5.1mm
- Index 10.** 23VF50B-5.1 female short 5.1mm
- Index 11.** 33VV50 male-male adapter
- Index 12.** 33VFVF50 female-female adapter (2)
- Index 13.** Connector thumb wheel (4)
- Index 14.** 01-201 torque wrench
- Index 15.** 01-323 female adapter for pin gauge
- Index 16.** 01-322 pin depth gauge
- Index 17.** 01-210 reference flat
- Index 18.** 01-204 adapter wrench
- Index 19.** 01-312 male flush short
- Index 20.** 01-311 female flush short

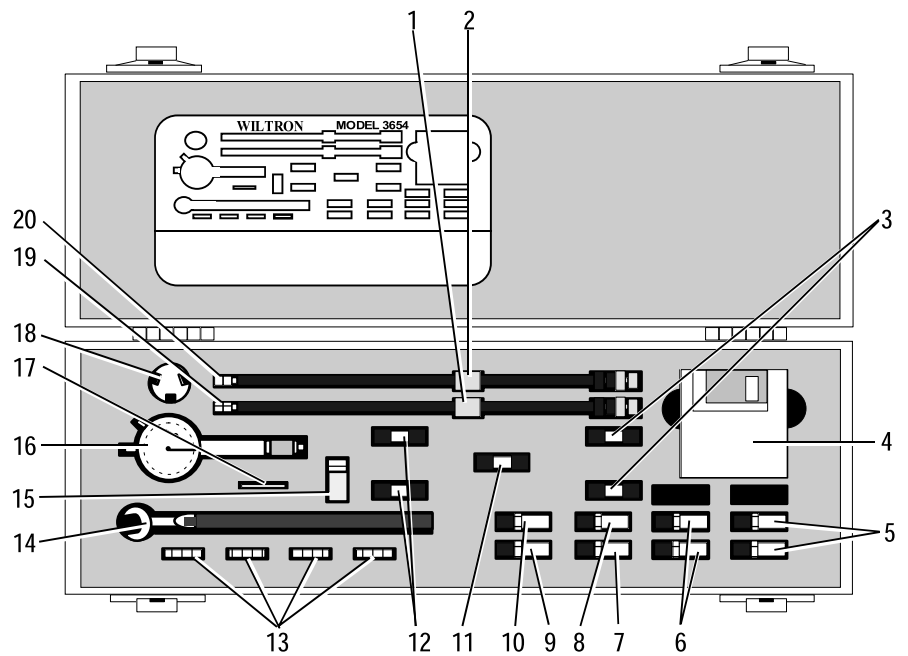


Figure 1-5. Model 3654 (V Connector) Calibration Kit Components