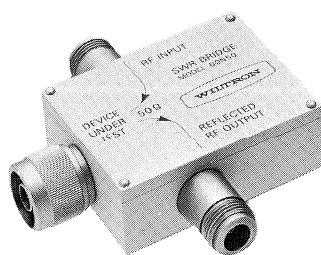
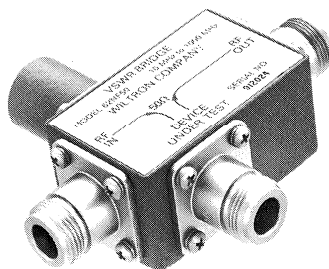


SWR Bridges & Autotesters

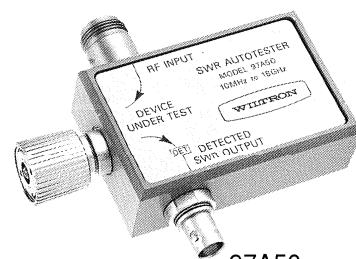
Model 60, 62 Series, 5 to 2000 MHz and Model 97 Series, 10 MHz to 18 GHz



60N50



62NF50



97A50

60 and 62 Series RF SWR Bridge Highlights

- 5 to 2000 MHz Frequency Coverage
- Up to 46 dB Directivity
- Built-in Reference Termination
- GPC-7, Type N or BNC Test Port Connectors

The 60 and 62 series RF SWR Bridges are precision devices designed to make very accurate measurement of SWR. All models contain a built-in reference termination and preserve phase and amplitude of the reflected signal. For extremely low values of SWR, the RF output can be amplified before detection. The 62 series are available with a choice of 50 or 75 impedance. For optimum performance, a 73 or 74 series RF Detector is recommended.

Model	Frequency Range (MHz)	Test Port Connector	Directivity (dB)	Input Impedance (Ohms)	Accuracy ^{①②}
60A50 60A50-1	5-2000	GPC-7	40 46	50	0.01 +0.09p ²
60N50 60N50-1	5-2000	N Male	40 46	50	0.01 +0.09p ²
60NF50 60NF50-1	5-2000	N Female	40 46	50	0.01 +0.09p ²
62B50 62BF50	10-1000	BNC Male BNC Female	40	50	0.01 +0.12p ²
62B75 62BF75	10-1000	BNC Male BNC Female	40	75	0.01 +0.12p ²
62FF75	10-1000	F Female	40	75	0.01 +0.12p ²
62N50 62NF50	10-1000	N Male N Female	40	50	0.01 +0.12p ²
62N75 62NF75	10-1000	N Male N Female	40	75	0.01 +0.12p ²

Insertion Loss: 6.5 dB nominal from input to test port

Maximum Input Power: 0.5 W

Input and Output Connector:

Type N Female on 62N, 62NF and 60 Series

BNC Female on 62B, 62BF, and 62FF

Dimensions: 60 Series

6.7 x 5.1 x 2.54 cm (2-5/8 x 2 x 7/8 in.) plus connectors

62 Series

5.7 x 3.5 x 2.86 cm

(2-1/4 x 1-3/8 x 1-1/8 in.) plus connectors

Weight: 60 Series 340 g (12 oz.)

62 Series 170 g (6 oz.)

Companion Equipment: 5400-71N50, 562 Network Analyzer and 6600B Sweep Generator.

97 Broadband SWR Autotester Highlights

- High 40 dB Directivity
- Low Test Port Reflections
- Broadband 10 MHz to 18 GHz Frequency Range
- Small Package Including Bridge, Termination, and Detector
- Selection of GPC-7, WSMA, or Type N Test Port Connector

These precision SWR Autotesters integrate in one small package a broadband microwave bridge, a precision termination, a detector, and a GPC-7, Type N, or WSMA test port connector. With high directivity and low test port reflections, the 97 Series provides accurate return loss (SWR) measurements over the 10 MHz to 18 GHz range. An accuracy equation is provided for every model.

Model	Test Port Connector	Directivity (dB)	Accuracy ^{①②}	
			10 MHz-8 GHz	8-18 GHz
97A50	GPC-7	36	0.016 +0.06p ²	0.016 +0.10p ²
97A50-1	GPC-7	40	0.010 +0.06p ²	0.010 +0.10p ²
97N50	Type N Male	37	0.018 +0.08p ²	0.018 +0.08p ²
97NF50	Type N Female			
97N50-1	Type N Male	38	0.013 +0.08p ²	0.013 +0.12p ²
97NF50-1	Type N Female			
97S50	WSMA Male	35	0.018 +0.08p ²	0.018 +0.08p ²
97SF50	WSMA Female			
97S50-1	WSMA Male	38	0.013 +0.08p ²	0.013 +0.12p ²
97SF50-1	WSMA Female			

Frequency Range: 10 MHz to 18 GHz

Frequency Sensitivity: ±1.5 dB maximum

Insertion Loss: 6.5 dB nominal^③

Detector Polarity: Negative

SWR Output Time Constant: 2 μs

Maximum Input Power: 0.5 W

Input Connector: Type N Female stainless steel

Detector Output Connector: BNC Female

Dimensions: 7.6 x 5 x 2.8 cm (3 x 2 x 1-1/8 in.) plus connectors

Weight: 340 g (12 oz.)

Companion Equipment: 562 Network Analyzer, 6600B Sweep Generator, 28 Series Termination, and 18 Series Air Line

^① Including effects of test port reflections and directivity.

^② Where p is the measured reflection coefficient.

^③ Typically 8.5 dB at 18 GHz from P1F input port to test port.

^① Where p is the measured reflection coefficient.
^② Includes the effects of test port reflections and directivity.

VNA

SNA

Sources

Components

Connectors