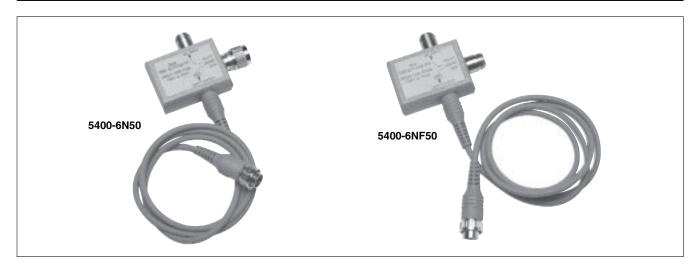
## **SWR AUTOTESTERS**

# **5400-6 Series**

1 MHz to 3000 MHz



The 5400-6 Series SWR Autotesters integrate a high directivity bridge, a detector, a low reflection test port, a precision reference termination, and a connecting cable. They are used with the Model 56100A Scalar Network Analyzers and with Series 54100A Scalar Measurement Systems for making fixed-frequency and swept-frequency return loss (SWR) measurements. Return loss measurements are used over a wide range of radio and microwave frequen-

cies to check the performance of systems, subsystems, and microwave components such as amplifiers, directional couplers, attenuators, filters, splitters, and terminations.

#### **Features**

- 40 dB directivity.
- 1 MHz to 3000 MHz range
- F, N, or BNC type test port connectors

### **Specifications**

Models	Directivity (dB)	Accuracy* <sup>1</sup>			Test Port Connection	Physical
5400-67FF75* <sup>2,5</sup>	40	<u>10-1000 MHz</u> 0.010 ±0.01ρ <sup>2</sup>			F (f)	— Dimensions* <sup>4</sup> : 2.5 x 5.1 x 7.0 cm Weight:
5400-6B50B* <sup>3</sup> 5400-6BF50B* <sup>3</sup>	40	<u>1-1500 MHz</u> 0.010 ±0.01ρ <sup>2</sup>			BNC (m) BNC (f)	
5400-6B75B* <sup>3,5</sup> 5400-6BF75B* <sup>3,5</sup>	40	0.010 ±0.10ρ²			BNC (m) BNC (f)	
5400-6N50* <sup>3</sup> 5400-6NF50* <sup>3</sup>	40	1-1000 MHz 0.010 ±0.05ρ <sup>2</sup>	1000-3000 MHz 0.010 ±0.05ρ <sup>2</sup>	2000-3000 MHz 0.010 ±0.05ρ <sup>2</sup>	Type N (m) Type N (f)	255 g
5400-6N75* <sup>3,5</sup> 5400-6NF75* <sup>3,5</sup>	40	0.010 ±0.05ρ <sup>2</sup>	0.010 ±0.05ρ <sup>2</sup>	0.010 ±0.08ρ <sup>2</sup>	Type N (m) Type N (f)	

All Models:

Input Port Impedance: 50  $\Omega$  (Except as Noted) Insertion Loss (from input to test port): 6.5 dB nominal

Detector Output Polarity: Negative Output Time Constant: 2 μs

Maximum Power Input: 0.5 watts (+27 dBm) Cable Length: 122 cm (4 ft.)

- \*1: Where ρ is the reflection coefficient being measured. Accuracy includes the effects of test port reflections and directivity.
- \*2: Input Connector: BNC Femal
- \*3: Input Connector: Type N Female \*4: Plus connectors and cable
- \*5: Impedance 75  $\Omega$

Temperature range: +25°C ±5°C

#### Ordering information

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

Model/Order No.	Name		
5400-6N50 5400-6N75 5400-6NF50 5400-6NF75	SWR Autotester 1 to 3000 MHz, Type N(m), 50 $\Omega$ 40 dB Directivity 1 to 3000 MHz, Type N(m), 75 $\Omega$ 1 to 3000 MHz, Type N(f), 50 $\Omega$ 1 to 3000 MHz, Type N(f), 50 $\Omega$ 1 to 3000 MHz, Type N(f), 75 $\Omega$		