

SWR AUTOTESTERS

5400-6 Series

1 MHz to 3000 MHz

5400-6N50



5400-6NF50



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*1			Test Port Connection	Physical
5400-67FF75~2,5	40	10-1000 MHz 0.010 ±0.01p ²			F (f)	Dimensions*4: 2.5 x 5.1 x 7.0 cm Weight: 255 g
5400-6B50B~3 5400-6BF50B~3	40	1-1500 MHz 0.010 ±0.01p ²			BNC (m) BNC (f)	
5400-6B75B~3,5 5400-6BF75B~3,5	40	0.010 ±0.10p ²			BNC (m) BNC (f)	
5400-6N50~3 5400-6NF50~3	40	1-1000 MHz 0.010 ±0.05p ²	1000-3000 MHz 0.010 ±0.05p ²	2000-3000 MHz 0.010 ±0.05p ²	Type N (m) Type N (f)	
5400-6N75~3,5 5400-6NF75~3,5	40	0.010 ±0.05p ²	0.010 ±0.05p ²	0.010 ±0.08p ²	Type N (m) Type N (f)	
All Models: Input Port Impedance: 50 Ω (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 p 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 Ω

Temperature range: +25°C ±5°C

Ordering information

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

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