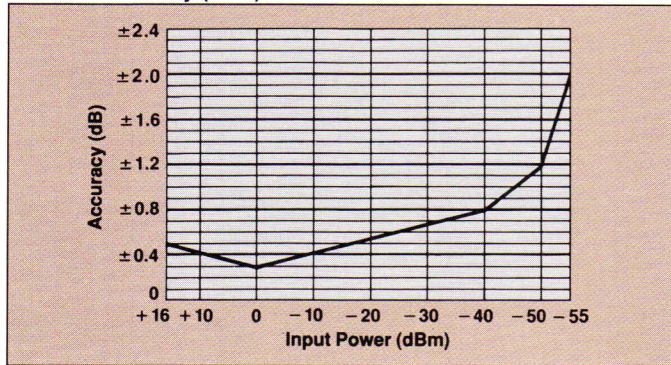


# RF Analyzers (Cont.)

## Models 6407 and 6409

### SYSTEM ACCURACY (CONT.)

Channel Accuracy (25°C):



### GENERAL

**Dimensions:** 177 H x 430 W x 495 D mm  
(7 H x 17 W x 18-3/4 D in.)

**Weight:** 16 kg (35 lb.)

**Power:** 100V/110V/220V/240V ±10%, 48–63 Hz, 130 VA maximum

**Operating Temperature:** 0°C to 50°C

### MEASUREMENT COMPONENTS

#### SWR Autotesters:

The 6400 Series SWR Autotesters are used to make precision return loss measurements. Fully compatible with the 6400, they are available in a variety of connector types and frequency ranges.

**Maximum Input Power:**

27 dBm (500 mW)

**Test Port Impedance Match:**

1.13 SWR (50Ω); 1.22 SWR (75Ω)

**Insertion Loss (input to test port):** 6.5 dB nominal

**Open/Short:** An Open/Short that mates directly on the test port is supplied with each SWR Autotester.



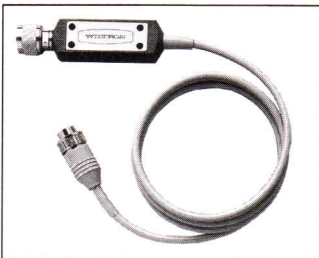
SWR Autotester Model	Frequency Range (MHz)	Test Port Connector	Impedance (Ohms)	Directivity (dB)
6400-6B50	1 to 1000	BNC Male	50	40
6400-6B75	1 to 1000	BNC Male	75	40
6400-6N75	1 to 1000	N Male	75	40
6400-6NF75	1 to 1000	N Female	75	40
6400-6N50	1 to 2000	N Male	50	40
6400-6NF50	1 to 2000	N Female	50	40
6400-6N75-1	1 to 2000	N Male	75	40, ≤1.8 GHz
6400-6NF75-1	1 to 2000	N Female	75	38, ≤1.8 GHz

#### Detectors:

The 6400 Series Detectors are used to make precision transmission loss or gain and absolute power measurements.

**Impedance Match:** 1.17 SWR

**Maximum Input Power:** 20 dBm (100 mW)



Detector Model	Frequency Range (MHz)	Input Connector	Impedance (Ohms)
6400-71B50	1 to 1000	BNC Male	50
6400-71B75	1 to 1000	BNC Male	75
6400-71N75	1 to 1000	N Male	75
6400-71N50	1 to 2000	N Male	50
6400-71N75-1	1 to 2000	N Male	75

#### Replacement Diodes:

10-21 Replacement Diode for 6400–71 Series 50Ω Detectors

10-88 Replacement Diode for 6400–71 Series 75Ω Detectors

#### Terminations:

Precision Terminations are used to terminate the output of a two-port device for the most accurate return loss measurements.

**SWR (50Ω):** 1.004 + 0.0026F

**SWR (75Ω):** 1.004 + 0.0025F  
(F in GHz)



Termination Model	Frequency Range (MHz)	Connector	Impedance (Ohms)
26N50	DC to 18,000	N Male	50
26NF50	DC to 18,000	N Female	50
26N75	DC to 4,000	N Male	75
26NF75	DC to 4,000	N Female	75

#### Adapters:

These 50Ω and 75Ω precision adapters are used for calibration or measurement of non-insertable devices. The 12 Series Matching Pads convert from 50Ω to 75Ω impedance.

**SWR:** 1.1



Adapter Model	Frequency Range (MHz)	Connectors
34NN50A	DC to 18,000	N Male/N Male
34NFNF50	DC to 18,000	N Female/N Female
34NFNF75	DC to 2,000	N Female/N Female
34NN75A	DC to 2,000	N Male/N Male

#### 50/75Ω Matching Pads:

The 12B50/75 and 12N50/75 pads are used to match 50Ω to 75Ω or 75Ω to 50Ω circuits.

**Frequency Range:**

DC to 1,500 MHz

**SWR:** 1.25

**Insertion Loss:** 6 dB nominal

#### Minimum Loss Adapter:

The 12N75 converts a 50Ω output to 75Ω with less than 3 dB loss.



Matching Pad Model	Connectors
12B50/75	BNC Male (50Ω)/ BNC Female (75Ω)
12N50/75	N Male (50Ω)/ N Female (75Ω)
12N75	N Male/N Male (50Ω to 75Ω only)