

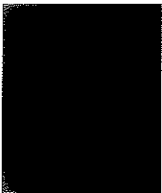
Performance Specifications

Performance specifications are provided in Table 1-1.

Table 1-1. Performance Specifications (1 of 2)

Specifications are valid when the unit is calibrated at ambient temperature after a 5 minute warmup.

Description	Value
Frequency Range:	
Site Master S330A	700 to 3300 MHz
Site Master S331A	25 to 3300 MHz
Frequency Accuracy (CW Mode)	75 parts per million @25°C*
Frequency Resolution	100 kHz
SWR:	
Range	1.00 to 65.00
Resolution	0.01
Return Loss:	
Range	0.0 to 54.00 dB
Resolution	0.01 dB
Cable Insertion Loss:	
Range	0.0 to 20.00 dB
Resolution	0.01 dB
**Distance-To-Fault (DTF):	
Range	0 to (Resoution x 129)
Resolution (in meters)	$(1.5 \times 10^8)(V_p)$
(Rectangular Windowing)	$\Delta Frequency$
	Where $V_p$ is the cable's relative propagation velocity.



## Chapter 1 General Information

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Table 1-1. Performance Specifications (2 of 2)

Wattmeter Power Monitor:	
Range	-50.0 to +20 dBm <i>or</i> 10.0 nW to 100.0 mW
Offset Range	0 to +60.0 dB 0.1 dB <i>or</i>
Resolution	0.1 xW
Test Port, Type N	50 Ohms
***Immunity to Interfering signals up to the level of	-15 dBm
Maximum Input (Damage Level):	
Test Port, Type N	+22 dBm
RF Detector	+20 dBm

Measurement Accuracy:

Measurement accuracy depends on calibration components. Standard calibration components have a directivity of 35 dB. Precision calibration components have a directivity of 42 dB.

Temperature:

Storage	-20° C to 75° C
Operation	0° C to 50° C

Weight: 2.2 pounds

Size: 8x7x2¼ inches

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\*  $\pm 2$  ppm/ $\Delta^{\circ}\text{C}$  from 25°C

\*\* Fault location is accomplished by inverse Fourier Transformation of data taken with the **Site Master**. Resolution and maximum range depend on the number of frequency data points, frequency sweep range and relative propagation velocity of the cable being tested.

\*\*\* Immunity measurement is made in CW mode with incoming interfering signal exactly at the same frequency (worst case situation). Typical immunity is better when swept frequency is used.

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