

# Performance Specifications

Performance specifications are provided in Table 1-2. Unless otherwise noted, specified values are obtained after a five minute warmup period at a constant ambient temperature. The typical values are provided for reference, and are not guaranteed.

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

Description		Value
<u>Frequency</u>		
Frequency Range		100 kHz to 3.0 GHz
Frequency Reference		
Aging		±1 ppm/yr
Accuracy		±2 ppm
Frequency Span		100 kHz to 3 GHz in 1, 2, 5 step selections in auto mode, plus zero span
Sweep Time		≥ 650 ms full span; 400 ms zero span
SSB Phase Noise		–75 dBc/Hz, 30 kHz offset @ 1 GHz
Spurious Responses		
Input Related		≤–45 dBc
Spurious		
Residual Responses		≤–95 dBm
<u>Resolution Bandwidth</u>		
Selections		10 kHz, 30 kHz, 100 kHz and 1 MHz
Accuracy		± 20% typical
<u>Video Bandwidth</u>		
Selection		100 Hz to 300 kHz in 1-3 sequence
<u>Amplitude</u>		
Measurement Range		+20 dBm to –97 dBm
Displayed Average Noise		
Level:		≤ –97 dBm (full span) typical
Dynamic Range		> 65 dB
Total Level Accuracy		±2 dB ≥ 200 kHz, typical ±3 dB < 200 kHz, typical
Maximum Safe Input Level		+20 dBm, maximum measurable safe input +27 dBm, maximum damage +27 dBm, peak pulse power +50 Vdc
<u>Amplitude Units</u>		
Log Scale Mode		dBm, dBV, dBmV, dBμV
Display Range		2 to 15 dB/division, in 1 dB steps, 10 divisions displayed
Attenuator		Range: 0 to 50 dB, selected manually or automatically coupled to the reference level. Resolution in 10 dB steps.

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

Description	Value
<u>Display</u>	
Type	Monochrome LCD with back light capability
Resolution	640 × 480
Marker Modes	Standard delta marker to peak marker to center
<u>Memory</u>	
Trace Storage	200 traces
Setup Storage	10 setups
Displayed Traces	2 traces
<u>Inputs</u>	
RF Input	50 Ω
Connector	Female, Type N
Maximum Input Level	+ 20 dBm, + 50 Vdc
RF Input VSWR	2.0:1
<u>RS232 Interface</u>	
Type	Null modem
Baud Range	9600 to 56k baud
<u>Printer Interface</u>	
Drivers	Epson ESC/P Epson ESC/P RAST Epson ESC/P2 HP PCL3
<u>General Characteristics</u>	
Dimensions	10 × 7 × 2.25 inches 25.4 × 17.8 × 6.1 centimeters
Weight	4 pounds (1.8 kg) including battery
Power Requirements	NIMH battery: 10.8 volts, 1800 mA maximum External DC input: +11 to +15 Vdc, 1250 mA max.
Temperature	Operating: 0 to +50° C, 85% or less humidity Non-operating: –20 to +75° C
Electromagnetic Compatibility	Meets European community requirements for CE marking
Safety	Conforms to EN 61010-1 for Class 1 portable equipment