

Table 1-2. HP 8449A Specifications and Characteristics

FREQUENCY	
Frequency Range	2.0 to 22.0 GHz
AMPLITUDE	
Flatness 2.0 to 22.0 GHz	± 3.8 dB; ± 2.4 dB Typical
Small Signal Gain 0°C to 55°C	≥ 23 dB
20°C to 30°C	≥ 26 dB; ≥ 30 dB Typical
Noise Figure 2.0 to 22.0 GHz	≤ 12.5 dB; ≤ 9.0 dB Typical
<i>Temperature Drift</i>	≤ -0.12 dB per °C
<i>Gain Compression</i>	≤ 1 dB for output signal of +7 dBm
<i>Spectral Purity</i> <i>Third Order Intercept</i> <i>Measured at Amplifier Output</i>	+15 dBm
<i>Second Harmonic Intercept</i> <i>Measured at Amplifier Output</i>	$\geq +30$ dBm
<i>Reverse Isolation</i>	Reduces spectrum analyzer local oscillator emissions > 75 dB
INPUT AND OUTPUT	
Maximum Safe Power Input	+20 dBm (100 mW)
Maximum DC Input	± 20 V
<i>Input and Output</i>	SMA, 50Ω nominal
VSWR <i>Input</i> 2.0 to 22.0 GHz	$\leq 2.0:1$
<i>Output</i> 2.0 to 22.0 GHz	$\leq 2.0:1$

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GENERAL	
Power Requirements	100, 120, 220, or 240 V ($\pm 10\%$), 47 to 63 Hz
Temperature Range	
Operation	0°C to +55°C
Storage	-40°C to +75°C
Environmental	Type tested per MIL-T-28800C, Type III, Class 5, Style E
EMI	Conducted and radiated emissions are in compliance with the requirements of FTZ 1046, CISPR Publication 11 (1975); and MIL-STD-461C, Part VII, Methods CE03 and RE02.
Weight	2.9 kg (6.4 lb)
Dimensions	
<p>The diagram illustrates the physical dimensions of the HP 8449A device from two perspectives. On the left, the 'REAR' view shows a rectangular unit with a width of 213mm (8.4 in.) and a height of 102mm (4.0 in.). On the right, the 'SIDE' view shows the same unit from the side, indicating a depth of 297mm (11.74 in.). Both views show the device sitting on four small feet.</p>	