

Table 1-1. HP 8562A/B Specifications (1 of 8)

<b>FREQUENCY</b>																																									
<p>Frequency Range</p> <p>Internal Mixing</p> <p>Internal Mixing Bands</p>	<p><i>1 kHz to 22 GHz</i></p> <table border="0"> <thead> <tr> <th style="text-align: center;">Frequency Band</th> <th style="text-align: center;">Harmonic Mixing Mode (N)*</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1 kHz to 2.9 GHz</td> <td style="text-align: center;">1-</td> </tr> <tr> <td style="text-align: center;">2.75 GHz to 6.46 GHz</td> <td style="text-align: center;">1-</td> </tr> <tr> <td style="text-align: center;">5.86 GHz to 13.0 GHz</td> <td style="text-align: center;">2-</td> </tr> <tr> <td style="text-align: center;">12.4 GHz to 19.7 GHz</td> <td style="text-align: center;">3-</td> </tr> <tr> <td style="text-align: center;">19.1 GHz to 22.0 GHz</td> <td style="text-align: center;">4-</td> </tr> </tbody> </table>		Frequency Band	Harmonic Mixing Mode (N)*	1 kHz to 2.9 GHz	1-	2.75 GHz to 6.46 GHz	1-	5.86 GHz to 13.0 GHz	2-	12.4 GHz to 19.7 GHz	3-	19.1 GHz to 22.0 GHz	4-																											
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<p>Frequency Readout Accuracy</p> <p>Accuracy of Start, Center, Stop, or Marker Frequency</p>	<p><math>\langle \pm(\text{frequency readout} \times \text{frequency reference accuracy} + 5\% \text{ of frequency span} + 15\% \text{ of resolution bandwidth} + 250 \text{ Hz})</math></p>																																								
<p>Frequency Count Marker</p> <p>Resolution</p>	<p>Selectable from 10 Hz to 1 MHz</p>																																								
<p>Frequency Count Marker Accuracy</p> <p>(For signal-to-noise ratio <math>\geq 25</math> dB)</p>	<p><math>\langle \pm(\text{marker frequency} \times \text{frequency reference accuracy} + 50 \text{ Hz} \times N + 1 \text{ LSD})^*</math></p>																																								
<p>Delta Frequency Count Accuracy</p> <p>(For signal-to-noise ratio <math>\geq 25</math> dB)</p>	<p><math>\langle \pm(\text{delta frequency} \times \text{frequency reference accuracy} + 100 \text{ Hz} \times N + 2 \text{ LSD})^*</math></p>																																								
<p>Frequency Reference Accuracy</p> <p>Includes aging, temperature drift, and settability</p>	<p><math>\langle \pm 4 \times 10^{-6}</math> per year</p>																																								
<p>Stability</p> <p>Residual FM</p> <p>(Zero span)</p>	<p><math>\langle 50 \text{ Hz} \times N^*</math> peak-to-peak in 100 ms</p>																																								
<p>Spectral Purity</p> <p>Noise Sidebands</p> <p>30 kHz offset</p>	<p><math>\langle (-100 + 20 \log N) \text{ dBc/Hz}^*</math></p>																																								
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Table 1-1. HP 8562A/B Specifications (2 of 8)

<b>FREQUENCY (Continued)</b>	
<p><b>Frequency Span</b></p> <p>    Range</p> <p>        Internal Mixing</p> <p>        External Mixing</p> <p>    Accuracy</p> <p><b>Resolution Bandwidths (-3 dB)</b></p> <p>    Range</p> <p>    Accuracy</p> <p>        1 MHz resolution bandwidth</p> <p>        300 kHz to 300 Hz resolution bandwidth</p> <p>        100 Hz resolution bandwidth</p> <p>    Selectivity (60 dB/3 dB bandwidth ratio)</p> <p>    Bandwidth Shape</p> <p><b>Video Bandwidth</b></p> <p>    Post-detection low-pass filter averages displayed noise for a smooth trace.</p> <p>    Range</p>	<p>0 Hz, 10 kHz to 19.25 GHz over the 10-division CRT horizontal axis, variable in approximately 1% increments or in a 1, 2, 5 sequence</p> <p>    Minimum span = 2.5 kHz x N*</p> <p>    &lt; ±5%</p> <p>100 Hz to 1 MHz selectable in a 1, 3, 10 sequence</p> <p>    &lt; ±25%</p> <p>    &lt; ±10%</p> <p>    &lt; ±30%</p> <p>    &lt; 15:1</p> <p>Synchronously tuned, 4-pole filters</p> <p>1 Hz to 1 MHz in a 1, 3, 10 sequence</p>
<b>AMPLITUDE</b>	
<p><b>MEASUREMENT RANGE</b></p> <p><b>Maximum Safe Input Power</b></p> <p>    Average Continuous Power</p> <p>    Input Attenuation ≥10 dB</p> <p><b>Peak Pulse Power</b></p> <p>    Input Attenuation ≥30 dB</p> <p><b>DC</b></p> <p><b>Gain Compression</b></p> <p>    With ≤-3 dBm at Input Mixer</p> <p>    10 MHz to 22 GHz</p> <p>    (Input mixer power = Input power - Input Attenuation)</p>	<p>+ 30 dBm (1 Watt)</p> <p>+ 50 dBm (100 Watts) for pulse widths &lt; 10 μs and &lt; 1% duty cycle</p> <p>0 Volts</p> <p>&lt; 1.0 dB</p>
<p>* N is the harmonic mixing mode. The desired 1st LO harmonic is always higher than the tuned frequency by the 1st IF frequency (3.9107 GHz for the 1 kHz to 2.9 GHz band and 310.7 MHz for all other bands).</p>	

Table 1-1. HP 8562A/B Specifications (3 of 8)

<b>AMPLITUDE (Continued)</b>		
<p>Displayed Average Noise Level With no signal at input, 100 Hz resolution bandwidth, 1 Hz video bandwidth, and 0 dB input attenuation</p> <p style="text-align: center;"><b>Frequency Range</b></p> <p style="text-align: center;">10 kHz</p> <p style="text-align: center;">100 kHz</p> <p style="text-align: center;">1 MHz to 2.9 GHz</p> <p style="text-align: center;">2.9 GHz to 6.46 GHz</p> <p style="text-align: center;">6.46 GHz to 13.0 GHz</p> <p style="text-align: center;">13.0 GHz to 19.7 GHz</p> <p style="text-align: center;">19.7 GHz to 22.0 GHz</p>	<p><b>HP 8562A</b></p> <p>&lt; -90 dBm</p> <p>&lt; -100 dBm</p> <p>&lt; -121 dBm</p> <p>&lt; -121 dBm</p> <p>&lt; -110 dBm</p> <p>&lt; -105 dBm</p> <p>&lt; -100 dBm</p>	<p><b>HP 8562B</b></p> <p>&lt; -90 dBm</p> <p>&lt; -100 dBm</p> <p>&lt; -121 dBm</p> <p>&lt; -121 dBm</p> <p>&lt; -110 dBm</p> <p>&lt; -105 dBm</p> <p>&lt; -100 dBm</p>
<p>Spurious Responses</p> <p>All input-related spurious responses, except as noted below, with &lt; -40 dBm mixer level<sup>1</sup></p> <p>Second Harmonic Distortion</p> <p style="text-align: center;"><b>Frequency Range</b></p> <p style="text-align: center;">10 MHz to 2.9 GHz</p> <p style="text-align: center;">2.75 GHz to 22.0 GHz</p>	<p><b>HP 8562A</b></p> <p>&lt; -60 dBc</p> <p>10 MHz to 6.46 GHz</p>	<p><b>HP 8562B</b></p> <p>&lt; -60 dBc</p> <p>10 MHz to 2.9 GHz</p>
<p>Third Order Intermodulation Distortion</p> <p>With -30 dBm total power at input mixer<sup>1</sup></p> <p style="text-align: center;"><b>Frequency Range</b></p> <p style="text-align: center;">10 MHz to 2.9 GHz</p> <p style="text-align: center;">2.75 GHz to 22 GHz</p>	<p><b>HP 8562A</b></p> <p>&lt; -72 dBc,</p> <p>-40 dBm Mixer Level<sup>1</sup></p> <p>&lt; -100 dBc,</p> <p>-10 dBm Mixer Level<sup>1</sup></p>	<p><b>HP 8562B</b></p> <p>&lt; -72 dBc,</p> <p>-40 dBm Mixer Level<sup>1</sup></p> <p>&lt; -60 dBc,</p> <p>-40 dBm Mixer Level<sup>1</sup></p>
<p>Image, Multiple, and Out-of-Band Responses</p> <p style="text-align: center;"><b>Frequency Range</b></p> <p style="text-align: center;">10 MHz to 18 GHz</p> <p style="text-align: center;">10 MHz to 22 MHz</p>	<p><b>HP 8562A</b></p> <p>&lt; -70 dBc</p> <p>&lt; -75 dBc</p>	<p><b>HP 8562B</b></p> <p>&lt; -70 dBc</p> <p>&lt; -75 dBc</p>
<p>Residual Responses</p> <p>200 kHz to 6.46 GHz, with no signal at input, 0 dB input attenuation</p>	<p>&lt; -90 dBm</p>	
<b>DISPLAY RANGE</b>		
<p>Amplitude Scale</p>	<p>10 vertical CRT divisions with the reference level (0 dB) at the top graticule line</p>	
<p><sup>1</sup> Mixer level = Input level - input attenuation</p>		

Table 1-1. HP 8562A/B Specifications (4 of 8)

<b>AMPLITUDE (Continued)</b>																										
<p><b>DISPLAY RANGE (Continued)</b></p> <p>Calibration</p> <p style="padding-left: 20px;">Log</p> <p style="padding-left: 20px;">Linear</p> <p>Reference Level Range</p> <p style="padding-left: 20px;">Log, adjustable in 0.1 dB steps</p> <p style="padding-left: 40px;"><b>Frequency Band</b></p> <p style="padding-left: 60px;">10 kHz to 2.9 GHz</p> <p style="padding-left: 60px;">2.75 GHz to 6.46 GHz</p> <p style="padding-left: 60px;">5.86 GHz to 13.0 GHz</p> <p style="padding-left: 60px;">12.4 GHz to 19.7 GHz</p> <p style="padding-left: 60px;">19.1 GHz to 22.0 GHz</p> <p style="padding-left: 20px;">Linear, settable in 1% steps</p> <p style="padding-left: 40px;"><b>Frequency Band</b></p> <p style="padding-left: 60px;">10 kHz to 2.9 GHz</p> <p style="padding-left: 60px;">2.75 GHz to 6.46 GHz</p> <p style="padding-left: 60px;">5.86 GHz to 13.0 GHz</p> <p style="padding-left: 60px;">12.4 GHz to 19.7 GHz</p> <p style="padding-left: 60px;">19.1 GHz to 22.0 GHz</p>	<p style="padding-left: 40px;">10 dB/Div for 90 dB display from reference level</p> <p style="padding-left: 40px;">5 dB/Div for 50 dB display expanded from reference level**</p> <p style="padding-left: 40px;">2 dB/Div for 20 dB display expanded from reference level</p> <p style="padding-left: 40px;">1 dB/Div for 10 dB display expanded from reference level**</p> <p style="padding-left: 40px;">10% of reference level per division when calibrated in voltage</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding-right: 20px;"><b>Frequency Band</b></th> <th style="text-align: left;"><b>Range (dBm)</b></th> </tr> </thead> <tbody> <tr> <td style="padding-right: 20px;">10 kHz to 2.9 GHz</td> <td>-120 to +30</td> </tr> <tr> <td style="padding-right: 20px;">2.75 GHz to 6.46 GHz</td> <td>-120 to +30</td> </tr> <tr> <td style="padding-right: 20px;">5.86 GHz to 13.0 GHz</td> <td>-115 to +30</td> </tr> <tr> <td style="padding-right: 20px;">12.4 GHz to 19.7 GHz</td> <td>-105 to +30</td> </tr> <tr> <td style="padding-right: 20px;">19.1 GHz to 22.0 GHz</td> <td>-100 to +30</td> </tr> </tbody> </table> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding-right: 20px;"><b>Frequency Band</b></th> <th style="text-align: left;"><b>Range</b></th> </tr> </thead> <tbody> <tr> <td style="padding-right: 20px;">10 kHz to 2.9 GHz</td> <td>2.2 <math>\mu</math>V to 7.07V</td> </tr> <tr> <td style="padding-right: 20px;">2.75 GHz to 6.46 GHz</td> <td>2.2 <math>\mu</math>V to 7.07V</td> </tr> <tr> <td style="padding-right: 20px;">5.86 GHz to 13.0 GHz</td> <td>4.0 <math>\mu</math>V to 7.07V</td> </tr> <tr> <td style="padding-right: 20px;">12.4 GHz to 19.7 GHz</td> <td>12.6 <math>\mu</math>V to 7.07V</td> </tr> <tr> <td style="padding-right: 20px;">19.1 GHz to 22.0 GHz</td> <td>22 <math>\mu</math>V to 7.07V</td> </tr> </tbody> </table>		<b>Frequency Band</b>	<b>Range (dBm)</b>	10 kHz to 2.9 GHz	-120 to +30	2.75 GHz to 6.46 GHz	-120 to +30	5.86 GHz to 13.0 GHz	-115 to +30	12.4 GHz to 19.7 GHz	-105 to +30	19.1 GHz to 22.0 GHz	-100 to +30	<b>Frequency Band</b>	<b>Range</b>	10 kHz to 2.9 GHz	2.2 $\mu$ V to 7.07V	2.75 GHz to 6.46 GHz	2.2 $\mu$ V to 7.07V	5.86 GHz to 13.0 GHz	4.0 $\mu$ V to 7.07V	12.4 GHz to 19.7 GHz	12.6 $\mu$ V to 7.07V	19.1 GHz to 22.0 GHz	22 $\mu$ V to 7.07V
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<p><b>REFERENCE LEVEL UNCERTAINTY</b></p> <p>Frequency Response</p> <p style="padding-left: 20px;">With 10 dB input attenuation</p> <p style="padding-left: 20px;">In-Band</p> <p style="padding-left: 40px;"><b>Frequency Range</b></p> <p style="padding-left: 60px;">1 kHz to 2.9 GHz</p> <p style="padding-left: 60px;">2.9 GHz to 6.46 GHz</p> <p style="padding-left: 60px;">6.46 GHz to 13.0 GHz</p> <p style="padding-left: 60px;">13.0 GHz to 19.7 GHz</p> <p style="padding-left: 60px;">19.7 GHz to 22.0 GHz</p> <p style="padding-left: 20px;">Referenced to CAL OUTPUT (300 MHz)</p> <p style="padding-left: 40px;">1 kHz to 22.0 GHz</p>	<p><b>HP 8562A</b></p> <p>&lt; <math>\pm</math>1.2 dB</p> <p>&lt; <math>\pm</math>2.5 dB</p> <p>&lt; <math>\pm</math>3.5 dB</p> <p>&lt; <math>\pm</math>4.0 dB</p> <p>&lt; <math>\pm</math>4.3 dB</p> <p>&lt; <math>\pm</math>5.1 dB</p>	<p><b>HP 8562B</b></p> <p>&lt; <math>\pm</math>1.2 dB</p> <p>&lt; <math>\pm</math>2.0 dB</p> <p>&lt; <math>\pm</math>2.5 dB</p> <p>&lt; <math>\pm</math>3.0 dB</p> <p>&lt; <math>\pm</math>4.3 dB</p> <p>&lt; <math>\pm</math>5.1 dB</p>																								
<p>**These scales are available only in sweep times <math>\geq</math>30 ms (digital display mode).</p>																										

Table 1-1. HP 8562A/B Specifications (5 of 8)

<b>AMPLITUDE ACCURACY (Continued)</b>		
	<b>HP 8562A</b>	<b>HP 8562B</b>
Band Switching Uncertainty Additional uncertainty added to In-Band Frequency Response for measurements between any two bands.	< +0.5 dB	< +0.5 dB
Calibrator Uncertainty (-10 dBm, 300 MHz)	< ±0.3 dB	
Input Attenuator Switching Uncertainty 20 to 70 dB settings, referenced to 10 dB input attenuation <b>Frequency Range</b> 1 kHz to 12.4 GHz 12.4 GHz to 19.4 GHz 19.4 GHz to 22.0 GHz	< ±1.1 dB/10 dB step, 2.0 dB max < ±1.3 dB/10 dB step, 2.5 dB max < ±1.8 dB/10 dB step, 3.5 dB max	
IF Gain Uncertainty 0 dBm to -80 dBm reference levels with 10 dB input attenuation	< ±1.0 dB	
Resolution Bandwidth Switching Uncertainty Referenced to 300 kHz resolution bandwidth	< ±0.5 dB	
IF Alignment Uncertainty Uncertainty when using 100 Hz and 300 Hz resolution bandwidths 300 Hz resolution bandwidth 100 Hz resolution bandwidth	< ±0.5 dB < ±2.0 dB	
Pulse Digitization Uncertainty Pulse response mode, PRF >720/sweep time Log Linear	< 1 dB peak-to-peak < 4% of reference level peak-to-peak	
<b>SCALE FIDELITY</b>		
Log	< ±0.4 dB/4 dB from reference level to a maximum of ±1.5 dB over 0 to 90 dB range	
Linear	< ±3% of reference level	

Table 1-1. HP 8562A/B Specifications (6 of 8)

<b>SWEEP</b>	
<p>Sweep Time</p> <p>Range</p> <p>Span = 0</p> <p>Span = 0</p> <p>Span <math>\geq</math> 10 kHz</p> <p>Accuracy (Span = 0)</p> <p>Sweep time <math>\geq</math> 30 ms</p> <p>Sweep time <math>&lt;</math> 30 ms</p> <p>Sweep Trigger</p>	<p>50 <math>\mu</math>s to <math>&lt;</math> 30 ms (analog display)</p> <p>30 ms to 60 s (digital display)</p> <p>50 ms to 100 s (digital display)</p> <p><math>&lt;</math> <math>\pm</math> 1%</p> <p><math>&lt;</math> <math>\pm</math> 15%</p> <p>Free Run, Single, Line, Video, External</p>
<b>INPUTS AND OUTPUTS</b>	
<p><b>IF INPUT</b></p> <p>Connector</p> <p>Input level for full-screen deflection (external mixing mode, 0 dBm reference level, 30 dB conversion loss)</p> <p><b>HP-IB</b></p> <p>Connector</p> <p>Interface Functions</p> <p>Direct Plotter Output</p> <p><b>CAL OUTPUT</b></p> <p>Connector</p> <p>Frequency</p> <p>Amplitude</p> <p><b>1ST LO OUTPUT</b></p> <p>Connector</p> <p>Amplitude</p> <p><b>10 MHz REF IN/OUT</b></p> <p>Connector</p> <p>Frequency</p>	<p>SMA female, front panel</p> <p>-30 dBm <math>\pm</math> 1.5 dB</p> <p>IEEE-488 bus connector</p> <p>SH1, AH1, T6, TE0, L4, LE0, SR1, RL1, PP1, DC1, DT0, C1, C28, E1</p> <p>Supports HP 7225A, HP 7440A, HP 7470A, HP 7475A, HP 7550A, HP 9872A/B/C/T</p> <p>BNC female, front panel</p> <p>300 MHz <math>\pm</math> (300 MHz x frequency reference accuracy)</p> <p>-10 dBm <math>\pm</math> 0.3 dB</p> <p>SMA female, front panel</p> <p>+16.5 dBm <math>\pm</math> 2.0 dB (20°C to 30°C)</p> <p>BNC female, rear panel</p> <p>10 MHz <math>\pm</math> (10 MHz x frequency reference accuracy)</p>
<b>GENERAL</b>	
<p>Environmental</p> <p>Military Specification</p> <p>Calibration Interval</p> <p>Warmup</p>	<p>Per MIL-T-28800C, Type III, Class 3 Style C as follows:</p> <p>1 year</p> <p>5 minutes from ambient conditions***</p>
<p>*** 2 hours for conditions of internal condensation, 30 minutes to meet frequency response specifications without preselector peaking</p>	

Table 1-1. HP 8562A/B Specifications (7 of 8)

<b>GENERAL (Continued)</b>	
<b>Environmental (Continued)</b>	
Temperature	
Operating	-10°C to +55°C
Non-operating	-62°C to +85°C
Humidity	95% at 40°C for 5 days
Altitude	
Operating	15000 feet
Non-operating	50000 feet
Rain Resistance	Drip-proof at 16 liters/hour/square foot
Vibration	
5 to 15 Hz	0.059 inch peak-to-peak excursion
15 to 25 Hz	0.039 inch peak-to-peak excursion
25 to 55 Hz	0.020 inch peak-to-peak excursion
Pulse Shock	
Half Sine	30 g for 11 ms duration
Transit Drop	8-inch drop on 6 faces and 8 corners
Electromagnetic Compatibility	<p>Conducted and radiated interference is in compliance with CISPR publication 11 (1985) and Messempefaenger-Postverfuegung 526/527/79 (Kennzeichnung Mit F-Nummer/Funkschutzzeichen). Meets the requirements of MIL-STD-461B, Part 4, with the exceptions shown below.</p> <p><b>Conducted Emissions</b></p> <p>CE01 (Narrowband): 1 kHz to 15 kHz only</p> <p>CE03 (Narrowband): Full limits</p> <p>CE03 (Broadband): 20 dB relaxation from 15 kHz to 100 kHz</p> <p><b>Conducted Susceptibility</b></p> <p>CS01: Full limits (limited to 36 Hz for HP 8562B)</p> <p>CS02: Full limits</p> <p>CS06: Full limits</p> <p><b>Radiated Emissions</b></p> <p>RE01: 15 dB relaxation to 30 kHz and exceptioned from 30 kHz to 50 kHz</p> <p>RE02: Full limits to 1 GHz</p> <p><b>Radiated Susceptibility</b></p> <p>RS01: Full limits</p> <p>RS02: Exceptioned</p> <p>RS03: Limited to 1 V/m from 14 kHz to 1 GHz, with 20 dB relaxation at IF frequencies (30 dB relaxation at IF frequencies for Option 001 instruments)</p>

Table 1-1. HP 8562A/B Specifications (8 of 8)

<b>GENERAL (Continued)</b>		
<b>Power Requirements</b>		
<b>115 Vac Operation</b>		
Voltage		90 to 140V rms
Current		3.2A rms max
Frequency		47 to 440 Hz
<b>230 Vac Operation</b>		
Voltage		180 to 250V rms
Current		1.8A rms max
Frequency		47 to 66 Hz
<b>Maximum Power Dissipation</b>		180 Watts
<b>Weight</b>	<b>HP 8562A</b>	<b>HP 8562B</b>
	20 kg (44 lbs)	19 kg (41.8 lbs)
<b>Dimensions</b>		
Without handle or cover	184 mm high x 337 mm wide x 460.5 mm deep	
With handle and cover	200 mm high x 373 mm wide x 500 mm deep	

  

Legend: inches  
(millimeters)