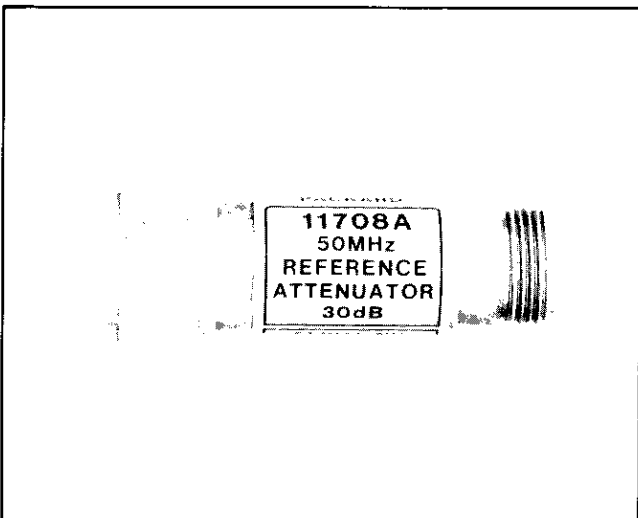


**Table 1. Specifications**

<p><b>Frequency Range:</b> 10 MHz to 18 GHz.</p> <p><b>Power Measurement Range:</b> 100 pW to 10 <math>\mu</math>W (-70 dBm to -20 dBm).</p> <p><b>Maximum Permissible RF Power, Average or Peak:</b> 200 mW.</p> <p><b>Maximum dc Voltage to RF Input:</b> 20V.</p> <p><b>Maximum SWR (Reflection Coefficient) of Power Sensor:</b></p> <table border="0"> <tr> <td>1.40 (0.167) 10 MHz to 30 MHz</td> <td>1.30 (0.130) 10 GHz to 15 GHz</td> </tr> <tr> <td>1.15 (0.070) 30 MHz to 4 GHz</td> <td>1.35 (0.150) 15 GHz to 18 GHz</td> </tr> <tr> <td>1.20 (0.091) 4 GHz to 10 GHz</td> <td></td> </tr> </table> <p><b>Maximum SWR (Reflection Coefficient) of HP 11708A 30 dB Reference Attenuator:</b> 1.05 (0.025) at 50 MHz*.</p> <p><b>RF Impedance:</b> 50 ohms nominal.</p> <p><b>RF Connector:</b> Type N Male (meets military specifications).</p> <p><b>Calibration:</b> Individual calibration graph and table, traceable to NBS, provided with each Power Sensor. The HP 11708A 30 dB Reference Attenuator is manufactured to <math>30 \pm 0.05</math> dB*, at 50 MHz and 25°C, traceable to NBS, with temperature coefficient typically 0.003 dB per degree C.</p> <p><b>Dimensions, including RF connector, excluding HP 11708A 30 dB Reference Attenuator:</b> 36 mm wide, 44 mm high, 133 mm long (1-7/16 x 1-3/4 x 5-1/4 in.) .</p> <p><b>Dimensions of HP 11708A 30 dB Reference Attenuator (including RF connector):</b> 20 mm diameter, 60 mm long (0.79 x 2.4 in.) .</p> <p><b>Weight (excluding HP 11708A 30 dB Reference Attenuator):</b> Net, 0.4 kg (13 oz.).</p> <p><b>Weight of HP 11708A 30 dB Reference Attenuator:</b> Net, 0.085 kg (3 oz.).</p>	1.40 (0.167) 10 MHz to 30 MHz	1.30 (0.130) 10 GHz to 15 GHz	1.15 (0.070) 30 MHz to 4 GHz	1.35 (0.150) 15 GHz to 18 GHz	1.20 (0.091) 4 GHz to 10 GHz	
1.40 (0.167) 10 MHz to 30 MHz	1.30 (0.130) 10 GHz to 15 GHz					
1.15 (0.070) 30 MHz to 4 GHz	1.35 (0.150) 15 GHz to 18 GHz					
1.20 (0.091) 4 GHz to 10 GHz						
<p>*To verify the specifications of the HP 11708A 30 dB Reference Attenuator to <math>\pm 0.073</math> dB, the test system used must meet the following requirements:</p> <ol style="list-style-type: none"> <li>Attenuation resolution 0.003 dB.</li> <li>Substitution attenuator accuracy <math>\pm 0.02</math> dB.</li> <li>Source and load SWR <math>&lt; 1.02</math>.</li> </ol>						



**Figure 1. HP 11708A 30 dB Reference Attenuator**

**16. Options**

17. Two options are available for the HP 8484A Power Sensor. The first, Option 002, is a range knob (00435-60030) for the HP 435A Power Meter, permitting more convenient use of power meters which have serial prefix number 1527A and under. HP 435A Power Meters with a higher serial prefix number do not require Option 002. No HP 436A Power Meter requires Option 002.

18. The other option is Option 003. This deletes the HP 11708A 30 dB Reference Attenuator.

**19. Recommended Test Equipment**

20. Table 2 lists the test equipment recommended to check, adjust, and troubleshoot the Power Sensor. If substitute equipment is used, it must meet or exceed the critical specifications.