

Table 1-3. Test Equipment and Accessories List (1 of 4)

Item	Critical Specifications	Suggested Model	Use*
Adapter (Male Type N to GR874)	Frequency range 100 MHz to 2.0 GHz	HP 1250-0847	P
Adapter, SMA-to-BNC	2 required	OSM 21190	P
Adapter, SMA-to-OSM Right Angle		OSM 219	P
Adapter, Type N-to-SMA		OSM 21040	P
Amplifier, 20 dB	≈20 dB gain at 30 MHz Input VSWR <1.7	HP 8447A	P
Amplifier, 40 dB	Low Noise	HP 08640-60506 (P/O Kit, HP 86602-60050)	P
Analyzer, Modulation	150 kHz to 1300 MHz, AM, FM, and ϕ M measurement capability	HP 8901	P, A
Analyzer, Spectrum	Measurement Accuracy ± 2.0 dB from 1 kHz to 110 MHz	HP 8553B with HP 8552B and HP 140T	P, A
Analyzer, Spectrum	Measurement Accuracy ± 2.0 dB from 10 MHz to 8 GHz	HP 8555A with HP 8552B and HP 140T	P, A, T
Analyzer, Wave	Center frequencies 20 to 40 kHz Resolution bandwidth ≤ 3 Hz Bandpass shape factor 10:1 Analog output 0 to 5V Noise level at 11 kHz center frequency with a 3 Hz bandwidth < -150 dBV	HP 3581A	P
Attenuator, 3 dB Fixed	3 dB	HP 8491A, Option 003	P
Attenuator, 10 dB Step	Calibrated at 30 MHz; refer to calibration curve	HP 355D-H38 (only)	P, A
Attenuator, 40 dB Fixed	40 dB	HP 8491A, Option 040	P
Cables, Double Shielded	Minimum input ≤ 300 mVrms (5 required)	HP 08708-6033	P
Capacitor, 1500 pF		HP 0160-2222	P
Capacitor, 100 μ F		HP 0180-2207	P
*Use: P = Performance Tests, A = Adjustments, T = Troubleshooting			

Table 1-3. Test Equipment and Accessories List (2 of 4)

Item	Critical Specifications	Suggested Model	Use*
Connector, BNC Panel Mount		HP 1250-0118	T
Counter, Computing	50 kHz to 50 MHz with a 1 ms gate time and external trigger; 1 Hz resolution	HP 5360A with HP 5365A plug-in	P
Counter, Frequency	Range 0.2–2600 MHz Resolution 1 Hz 10 MHz external reference output 7.2 Vrms output into 170 ohms	HP 5340A	P
Coupler, Directional	Frequency range 100 MHz to 2.9 GHz	HP 778D Opt. 12	P
Detector, Crystal	1 to 1200 MHz	HP 8471A	P
Detector, Crystal	10 MHz to 2.6 GHz	HP 423A	P, A
Distortion Measurement Set	20 Hz to 20 kHz Capable of measuring <0.1% distortion	HP 339A	P
Filter Kit	Accessory for HP 5210A	HP 10531A	P, A
Filter, Low Pass, 15 kHz	Cut-off frequency 15 kHz	HP 86602-60054 (P/O Kit HP 86602-60050)	P
Filter, Low Pass 4 MHz	Cutoff frequency 4 MHz	CIR-Q-TEL FLT/21B-4-3/50-3A/3B	P
Filter, Low Pass, 2200 MHz	Cutoff frequency 2200 MHz	HP 360C	P
Filters, Low Pass 100 kHz	100 kHz at 50 and 600 ohms	Specials (see Figure 1-2)	A
Filters, Low Pass 1 MHz	1 MHz – 50 and 600 ohms	Specials (see Figure 1-2)	P, A
Filters, Low Pass 5 and 10 MHz	5 and 10 MHz – 50 ohms	Specials (see Figure 1-2)	P
Generator, Pulse	Output – 10 Vpk with ≤ 10 ns risetime in 600 ohms	HP 8013B	P
Generator, Sweep	Sweep Width 0.1 to 100 MHz Output Level +20 to –80 dBm Flatness ± 0.25 dB	HP 8601A	A
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Table 1-3. Test Equipment and Accessories List (3 of 4)

Item	Critical Specifications	Suggested Model	Use*
Generator, Synthesized Signal	± 1 Hz from 1 MHz to 1300 MHz ± 2 Hz from 1300 to 2600 MHz +7 dBm output 10 MHz Reference Frequency output >0.5V into 170 ohms	HP 8660C with HP 86631B and HP 86603A plug-ins	P, A
Mixer, Double Balanced	1 MHz to 110 MHz	HP 10514A	A
Mixer, Double Balanced	300 to 2000 MHz	Watkins-Johnson MIJ	P
Oscillator, Test	1 kHz to 10 MHz 1.0 to 2.0 Vrms into 600 or 50 ohms Distortion less than 0.3%	HP 651B	P, A
Oscilloscope	Vertical: Bandwidth 50 MHz with sensitivity of 5 mV/ division minimum Horizontal: Sweep time 10 ns to 1 s Delayed sweep External triggering to 100 MHz	HP 180C with HP 1801A and HP 1821A plug-ins	P, A, T
Oscilloscope, 10:1 divider probes	10:1 divider, input impedance 10 megohm shunted by 10 pF	HP 10004	P, A, T
Power Meter/Sensor	Range: -10 to +10 dBm from 10 MHz to 2.6 GHz	HP 435A/8481A	P, A, T
Power Supply, DC	0-10 volts	HP 6215A	P
Programmer, Marked Card	Capable of programming BCD or HP-IB data	HP 3260A Opt 001	P, A
Probe, Logic	TTL compatible	HP 10525T	T
Resistor, 1000 ohm	$\pm 2\%$	HP 0757-0280	P, A
Resistor, 10K ohm	$\pm 2\%$	HP 0757-0442	P
Resistor, 100K ohm	$\pm 2\%$	HP 0698-7284	P
Service Kit	Interconnect cables, adapters, and coaxial cables compatible to 8660-series plus and jacks	HP 11672A (See Operating Note or mainframe manual for parts list)	A, T
Stub, Adjustable	Frequency range 100 MHz to 2.0 GHz	General Radio 874-D50L	P
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Table 1-3. Test Equipment and Accessories List (4 of 4)

Item	Critical Specifications	Suggested Model	Use*
Tee, Coaxial	2 required	HP 1250-0781 (BNC)	P,A
Termination, 50 ohm Feedthru	50 ohm	HP 11048C	P
Termination, 50 ohm	50 ohm (2 required)	HP 11593A	P
Test Set, Phase Modulation	Input Frequency Range 250 to 450 MHz Distortion <2.0% up to 2 MHz rates <3.5% up to 5 MHz <5.0% up to 10 MHz	HP 8660C-K10 (only)	P
Voltmeter, AC	Accuracy $\pm 2\%$ of full scale from 1 Hz to 1 MHz 1 mVrms to 10 Vrms full scale	HP 403B	P, A, T
Voltmeter, Digital	Range 0.00 to 60.00 volts DC Accuracy $\pm (0.3\% \text{ of reading} + 0.01\% \text{ of range})$ AC Accuracy $\pm (0.25\% \text{ of reading} + 0.05\% \text{ of range})$ 45 Hz to 20 kHz	HP 3466A	P, A, T
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