

**Specifications**

**Frequency**

**Frequency Range:** 0.15 MHz to 1050MHz  
**Frequency Resolution displayed:** 100kHz (4½Digit)  
**Center Frequency Range** 0 to 1050 MHz  
**Accuracy:** ±100kHz  
**Stability (Drift):** <150kHz / h  
**Span:** Zero span; 100kHz/Div to 100MHz/Div  
 in steps of 1-2-5  
**Accuracy:** ±10%  
**Marker Resolution (Frequency):** 4½digits  
**Marker Accuracy:** ±(0.1% span + 100kHz)  
**Resolution Bandwidth, RBW(-3dB):** 20kHz, 250kHz  
**Video Bandwidth, VBW:** 4kHz, 250kHz  
**SWT (fixed):** 23ms

**Amplitude**

**Measurement Range:** -100dBm to +13dBm  
**Displayed Average Noise Level:** -103dBm (250kHz RBW)  
**Frequency Response** ±2 dB  
 (Relative to 500 MHz, ATTN 10 dB)  
**Input Attenuator Range:** 40 dB, 10 dB steps  
**Accuracy (reference level):** ±2 dB  
**Maximum Safe Input Level**  
 Attenuator setting 20db: +20 dBm (0,1W)  
 Attenuator setting 0dB: +10 dBm  
 DC: ±25 V  
**Display Range:** 80 dB, 8 Divisions  
**Scale Units** dBm  
**Reference Level:** -27,-17,-7, +3 and +13dBm  
**Res. Bandwidth Switching Uncertainty:** ±1dB  
**Spurious responses:**  
**Intermodulation (3rd Order):** < -75 dBc  
 (2 Signals, -27 dBm each, Frequency distance>3MHz)  
**Harmonic Distortion (2nd, 3rd):** < -75 dBc  
**Absolute Amplitude Accuracy:** ±2.5 dB

**Tracking Generator (only HM5011)**

**Output Frequency Range:** 0.15MHz to 1050MHz  
**Output Power Level:** -50dBm to +1dBm  
 (in 10dB steps and var.)  
**Output attenuator:** 0 to 40dB (4 x 10dB steps)  
**Output attenuator accuracy:** ±1dB  
**Output flatness: (150kHz to 500MHz)** ±1.5dB  
**Spurious Outputs:** Harmonic Spurs >20dBc  
 Non-Harmonic Spurs >20dBc  
**Output impedance /(Conn.):** 50Ω /(BNC Female)

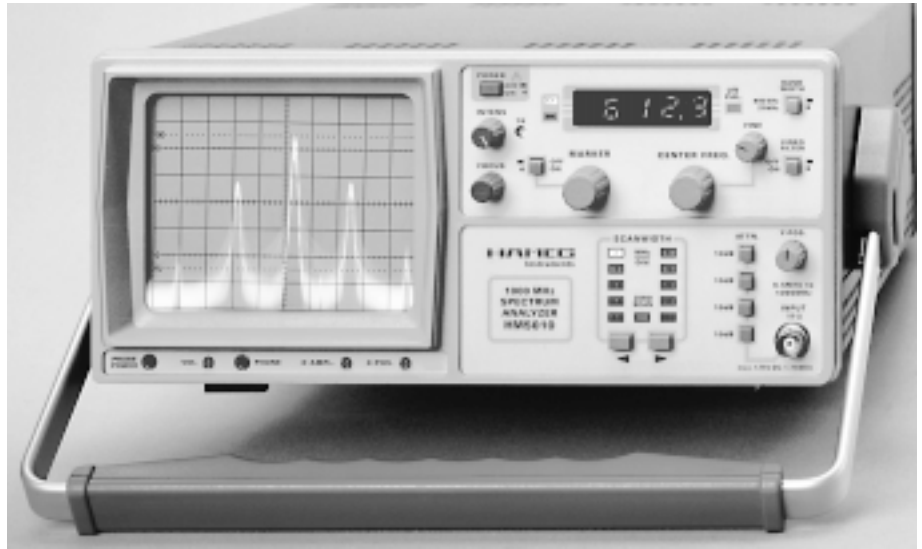
**Miscellaneous**

**AM-Demodulator** Ear Phones  
**Probe Power** 6V (Close Field Probes)

**General**

**Display:** CRT 6 inch, 8 x 10 div. intern. graticule  
**Trace rotation:** Adjustable on front panel  
**Line voltage:** 115 / 230V ±10%, 50-60Hz  
**Power consumption:** approx. 34W  
**Operating ambient temperature:** 10°C..+40°C  
**Protective system:** Safety Class I (IEC 1010-1)  
**Cabinet:** W 285, H 125, D 380 mm  
**Weight:** approx. 7kg

Subject to change without notice 1/98



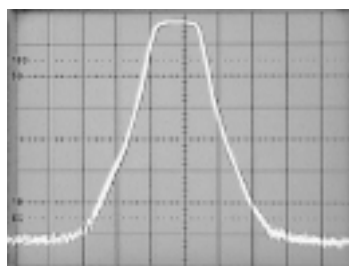
**Spectrum Analyzer HM5010 / HM5011**

**Frequency Range: 0.15MHz - 1050MHz.**  
**4½ Digit Display (Center & Marker Frequency, 0.1MHz resolution)**  
**Amplitude Range: -100 to +13dBm**  
**Filters: 20kHz, 250kHz and Video Filter**  
**Tracking Generator (HM5011 only) 0.15MHz - 1050MHz.**  
**Output Power: +1dBm to -50dBm (50Ω).**

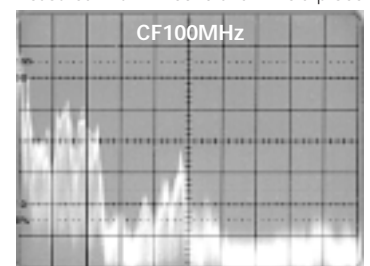
Evolution of the original HM5005/HM5006 has led to the **new HM5010/ HM5011 Spectrum Analyzer/Tracking Generator** which now extends operation **over 1 GHz** (frequency range 0.15 to 1050 MHz). Both fine and coarse center frequency controls, combined with a scanwidth selector provide simple frequency domain measurements from 100 kHz/div. to 100 MHz/Div. Both models include a **4½digit numeric LED readout** that can selectively display either the center or marker frequency. The **HM5011** includes a **tracking generator**.

The **HM5010/5011** offer the same operation modes as the HM5005/5006. The instruments are suitable for pre-compliance testing during development prior to third party testing. A near-field sniffer probe set, **HZ530**, can be used to locate cable and PC board emission "hot spots" and evaluate **EMC problems** at the breadboard and prototype level. The combination of **HM5010/5011** with the **HZ530** is an excellent solution for RF leakage/radiation detection, **CATV/MATV** system troubleshooting, cellular telephone/pocket pager test, and **EMC** diagnostics. There is an optional measurement output for a PC which makes documentation of results easy and affordable with the **HO500-2 Interface**.

Filter response measured with HM5011



Switch mode power supply radiation measured with HM5010 and E-Field probe.



**Accessories supplied:**  
 Line cord, Operators Manual

**Optional Accessories**  
 look at page No. 20-22

