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)

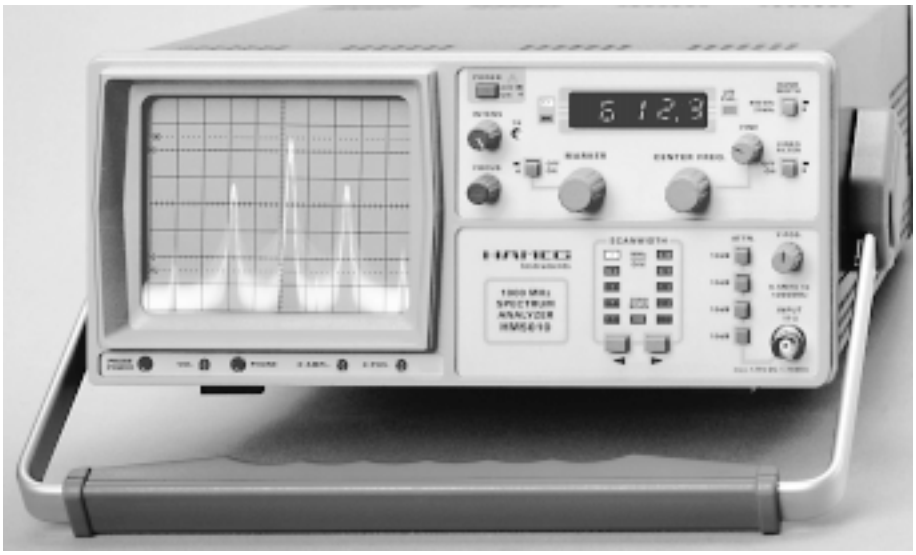
General

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

Accessories supplied:
Line cord, Operators Manual

Optional Accessories
look at page No. 20-22



Spectrum Analyzer HM5010 / HM5011

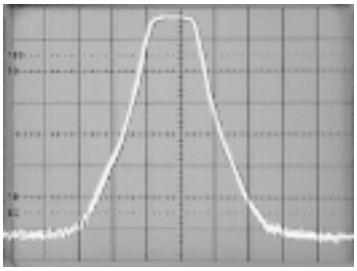
Frequency Range: 0.15MHz - 1050MHz.
4½ Digit Display (Center & Marker Frequency, 0.1MHz resolution)
Amplitude Range: –100 to +13dBm
Filters: 20kHz, 250kHz and Video Filter

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.