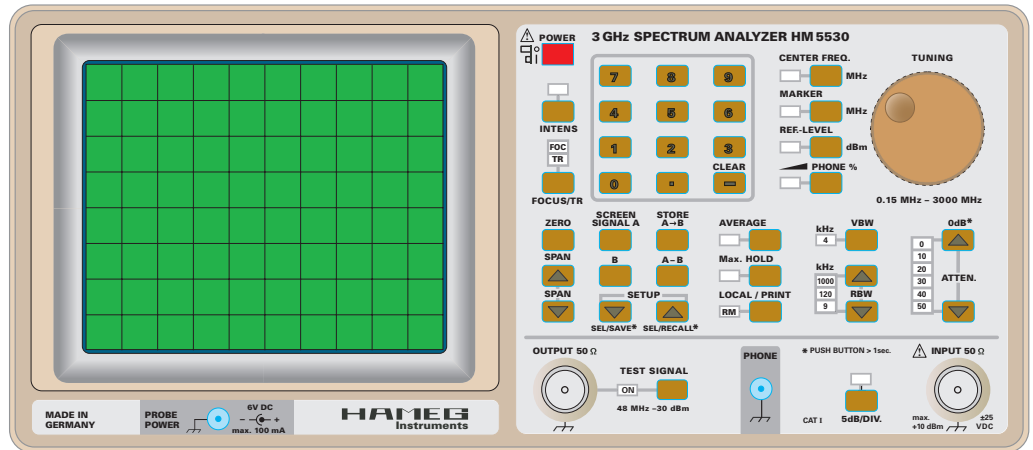


SPECTRUM ANALYZER HM 5530

Specifications

(Reference Temperature 23°C ±2°C)



Frequency

Frequency Range:	0.15 MHz to 3000 MHz
Stability:	±5ppm
Ageing:	±1ppm/year
Display Resolution (Readout):	1kHz (6½ -Digit)
Center Frequency Range:	0 MHz - 3000 MHz
Frequency Generation:	TCXO with DDS
Span:	Zero span and 1MHz to 3000MHz in steps of 1-2-5
Marker: Resolution (Frequency)	1kHz, 6½ -Digit
Resolution (Amplitude)	0.4dB, 3½ -Digit
Resolution Bandwidth, RBW (6dB):	9kHz, 120kHz and 1MHz
Video Bandwidth, VBW:	4kHz
Sweep time (autom. Selection):	40ms, 320ms, 1s*

Amplitude (Marker related) 150kHz - 3GHz

Measurement Range:	-110dBm to +20dBm
Scaling:	10dB/div., 5dB/div.
Display Range:	80dB (@ 10dB/div.) 40dB (@ 5dB/div.)
Frequency response (@10dB Attn., Zero Span, RBW 1MHz, -20dBm Signal):	±3dB
Display CRT, Units:	8 x10, logarithmic, dBm
Input Attenuator Range:	0 - 50dB, 10dB steps
Attenuator Accuracy rel. to 10dB:	±1dB
Maximum Safe Input Level (continuous):	
Attenuator setting 40dB:	+20dBm (0,1W)
Attenuator setting 0dB:	+10dBm
DC max:	±25 V
Reference Level Variation:	-99.6dBm to +20dBm
Reference Level Accuracy (rel. to 500MHz, 10dB Attn., Zero Span, RBW 1MHz):	±1dB
Min. Average Noise Level:	-110dBm (9kHz RBW)
Intermodulation (3rd Order):	better than 75dBc (2 Signals, -27 dBm each, Frequency distance>3MHz)
Harmonic Distortion	better than 75dBc (2nd at input level -27dBm, ATTN 0dB, Frequency distance>3MHz)
Resolution Bandwidth Amplitude Error (rel. to RBW 1MHz, Zero Span):	±1dB
Digitising Error:	±1 Digit (0.4dB) @ 10dB/div. (Average mode)

Inputs / Outputs

Signal Input:	N-Connector
Input Impedance:	50Ω
Test Signal Output	BNC (F)
Output Impedance, Frequency, Level:	50Ω, 48MHz, -30dBm, ±2dB
Probe Power:	6V (Near field probes)
VSWR:	ATTN ≥10dB typ. 1.5 : 1
Audio Output (Phone):	3.5 mm Ø jack
RS-232 Interface:	9 pole, Sub-D

Functions

Num. Keypad:	Center Frequency and referencelevel
Rotary Dial:	Center Frequency, Referencelevel, Marker
Max. Hold Detection:	Peak Detection
Quasi-Peak Detection:	with software AS100E
Average:	Mean value measurement
SAVE/RECALL	10 set-up settings
AM-Demodulator	Ear Phones
LOCAL:	RS-232 control disabled

General Data

Temperature Range:	Operating: 10°C-40°C
Power Requirements:	105 - 250V~ 50/60Hz
Power Consumption	approx. 40 W
Protective System:	Safety Class I (EN 61010-1)
Dimensions (W x H x D):	285 x 125 x 380 mm
Cabinet, Weight:	Lockable tilt handle, approx.6kg

*) only in combination with software AS100E

Subject to change without notice

Accessories supplied: HM 5530, Manual, Power-Cord, Software-CD

Optional Accessories: Opto-Interface HZ 70, Sniffer Probes HZ 530, Transient Limiter HZ 560, Line Impedance Stabilization Network HM 6050-2, VSWR Measuring Bridge HZ 541