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Test & Measurement

- sales
- rentals
- calibration
- repair
- disposal

Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.

Call TMG if you need to organise repair and/or calibrate your unit.

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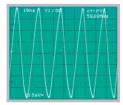




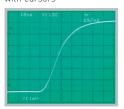
50 MHz Analog Oscilloscope HM504-2



Full screen display of 50 MHz sine wave



Rise-time measurement with cursors



Optimum deflection linearity



2 Channels with deflection coefficients of 1 mV/cm - 20 V/cm

Time Base: 0.5 s/cm - 50 ns/cm, with X Magnification to 10 ns/cm

Low Noise Measuring Amplifiers with high pulse fidelity

Triggering from 0 to 100 MHz from 5mm signal level

Time Base delay provide high X Magnification of any portion of the signal

100 MHz 4-Digit Frequency Counter, Cursor and Automatic Measurement

Save/Recall Memories for Instrument Settings

Readout, Autoset, no Fan

Yt, XY and component-test modes

RS-232 Interface (for parameter queries and control only)

50 MHz Analog Oscilloscope HM504-2

Valid at 23 °C after a 30 minute warm-up period

Vertical Deflection

Operating Modes: Channel I or II only

Channels I and II (alternate or chopped)

Sum or Difference of CH I and CH II

Invert:

XY Mode: CH I (X) and CH II (Y) 2 x 0 - 50 MHz (-3 dB) Bandwidth:

Rise Time: <7ns

Deflection Coefficient: 1-2-5 Sequence

1 mV/div. - 2 mV/div.: \pm 5 % (0 - 10 MHz (-3 dB)) 5 mV/div. - 20 V/div.: $\pm 3\% (0 - 50 MHz (-3 dB))$ > 2.5:1 to > 50 V/div. Variable (uncalibrated):

Input Impedance: 1 MΩ II 15 pF Input Coupling: DC, AC, GND (ground) Max. Input Voltage: 400 V (DC + peak AC)

Triggering
Automatic (Peak to Peak): 20 Hz - 100 MHz (≥ 5 mm) Normal with Level Control: 0 - 100 MHz (≥ 5 mm) Slope: positive or negative

Sources: Channel I or II, CH I/CH II alternate (≥8 mm),

Line and External

Coupling: AC (10 Hz - 100 MHz), DC (0 - 100 MHz),

HF (50 kHz -100 MHz), LF (0 -1.5 kHz)

Trigger Indicator:

Triggering after Delay: with Level Control and Slope selection

External Trigger Signal: $\geq 0.3 \, V_{pp} \, (0 - 50 \, MHz)$ Active TV sync. separator: Field and Line, +/-

Horizontal Deflection

Time Base: 0.5 s/div. - 50 ns/div. (1-2-5 Sequence)

Accuracy:

Variable (uncalibrated): > 2.5:1 to > 1.25 s/div. X Magnification x 10: up to 10 ns/div. (± 5%)

Accuracy:

Delay (selectable): 140 ms - 200 ns (variable)

Hold-Off Time: variable to approx. 10:1

Bandwidth X amplifier: 0 - 3 MHz (-3 dB)

XY Phase shift < 3°: < 120 kHz

Operation / Readout / Control

Manual: via controls Autoset: automatic signal related parameter settings

Save and Recall: 9 instrument parameter settings Readout:

display of menu, parameters, cursors and

Autom. Measurement: Freq./Period, Vdc, Vpp, Vp+, Vp-,

Trigger Level

 Δt , $1/\Delta t$, tr, ΔV , V to GND, Gain, Ratio X and Y **Cursor Measurement:** Frequency counter: 4 digit (0.01 % ± 1 digit) 0.5 Hz - 100 MHz

Interface (standard fitting): RS-232 (for control)

Component Tester

Test Voltage: approx. 7 V_{rms} (open circuit) max. 7 mA_{rms} (short-circuit) **Test Current:**

Test Frequency:

2 banana jacks 4 mm Ø **Test Connection:** One test circuit lead is grounded via protective earth (PE)

Miscellaneous D14-363GY, 8 x 10 cm with internal graticule Acceleration Voltage: approx. 2 kV adjustable on front panel Trace Rotation: Z-input (Intens. modulation): max. + 5 V (TTL) Calibrator Signal (Square Wave):0.2 V \pm 1 %, 1 Hz - 1 MHz (tr < 4 ns), DC $105 - 253 \,\text{V}$, $50/60 \,\text{Hz} \pm 10 \,\text{\%}$, CAT II Power Supply (Mains): Power Consumption: approx. 34 Watt at 230 V/50 Hz 0° C...+ 40° C Ambient temperature: Safety class I (EN61010-1) Safety class: Weight: approx. 5.4 kg

Accessories supplied: Line Cord, Operators Manual and Software for Windows

285 x 125 x 380 mm

on CD-ROM, 2 Probes 1:1/10:1 (HZ154)

Dimensions (W x H x D):

Optional accessories:

HZ70 Opto Interface (with optical fiber cable)

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