LCR Bridge HM8118



HZ188 4-Terminal SMD Component Test Fixture (included)



HZ184 4-Terminal Kelvin Test Cable (included)



HZ181 4-Terminal Test Fixture with shorting plate (optional)













- Measurement range: 20 Hz to 200 kHz (69 steps)
- Basic accuracy: 0.05%
- Measurement rate: up to 12 values per second $\sqrt{}$
- ☑ Automatic or manual selection of circuit type (serial, parallel)
- oxdots Measurement functions: L, C, R, |Z|, X, |Y|, G, B, D, Q, Θ , Δ , M, N
- ☑ Transformer measurement: mutual inductance and ratio
- ☑ Tunable DC BIAS (voltage / current): internal: 0V to 5V/0 mA to 200 mA (resolution: 10 mV/1 mA) external: 0V to 40V (voltage BIAS only)
- ☑ RS-232/USB dual interface for remote control

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All data valid at 23 °C after 30 minutes warm-up.

Conditions

Test signal voltage: 1V
Open and short corrections performed
Measurement time: SLOW

Display

Equivalent circuits:

Parameters displayed:

Measurement modes: Auto, L-Q, L-R, C-D, C-R, R-Q, Z-Θ, Y-Θ,

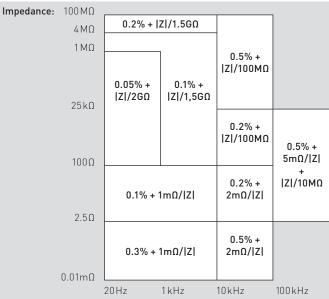
R-X, G-B, N-Θ, M Auto, series or parallel Value, deviation or % deviation

Averaging: 2 to 99 measurements

Accuracy

Primary parameters: Basic accuracy

(Test voltage: 1.0V, measurement SLOW/ MEDIUM, autoranging mode, constant voltage OFF, bias off). For FAST mode double the basic accuracy values



Secondary parameters:

Basic accuracy D, Q: ± 0.0001 @ f = 1 kHz Phase angle: $\pm 0.005^{\circ}$ @ f = 1 kHz

Ranges	
Z , R, X:	0.01 mΩ to 100 MΩ
IYI, G, B:	10 nS to 1,000 S
C:	0.01 pF to 100 mF
L:	10 nH to 100 kH
D:	0.0001 to 9.9999
Q:	0.1 to 9,999.9
Θ:	-180° to +180°
Δ:	-999.99 % to 999.99 %
M:	1 μH to 100 H
N:	0.95 to 500

Measurement conditions	and functions
Test frequency:	20 Hz to 200 kHz (69 steps)
Frequency accuracy:	±100 ppm
AC test signal level:	$50\mathrm{mV}_{\mathrm{rms}}$ to $1.5\mathrm{V}_{\mathrm{rms}}$
Resolution	$10\mathrm{mV}_{\mathrm{rms}}$
Drive level accuracy:	$\pm (5\% + 5 \text{mV})$
Internal bias voltage:	$0V_{dc}$ to +5.00 V_{dc}
Resolution	10 mV
External bias voltage:	$0V_{dc}$ to +40 V_{dc} (fused 0.5A)
Internal bias current:	0 mA to +200 mA
Resolution	1 mA
Range selection:	Auto and hold
Trigger:	Continuous, manual or external via interface, binning interface or trigger input
Trigger delay time:	0 ms to 999 ms in 1 ms steps
Measurement time (f ≥1 kHz): FAST MEDIJIM	70 ms

0.7s

SLOW

Other instrument function	ons
Test signal level monitor:	Voltage, current
Error correction:	Open, short, load
Save/Recall:	9 instrument settings
Front-end protection:	$V_{max} < \sqrt{2/C} @ V_{max} < 200 V$, C in Farads (1 Joule of stored energy)
Low potential and	
low current guarding:	Ground, driven guard or auto (fused)
Constant voltage mode (25 Ω	source):
Temperature effects	
R, L or C	±5ppm/°C
Interface:	Dual interface USB/RS-232 (H0820), IEEE-488 (GPIB) (optional)
Safety class:	Safety class I (EN61010-1)
Power supply:	110V to 230V ±10%, 50Hz to 60Hz, CAT II
Power consumption:	approx. 20 W
Operating temperature:	+5°C to +40°C
Storage temperature:	-20°C to +70°C
Rel. humidity:	5% to 80% (non condensing)
Dimensions (W \times H \times D):	285 x 75 x 365 mm
Weight:	approx. 4 kg

3	
Accesso	ries supplied: Line cord, printed operating manual, HZ184 4-terminal
kelvin te	st cable and HZ188 4-terminal SMD component test fixture, CD
Recomn	nended accessories:
H0118	Binning interface
H0880	Interface IEEE-488 (GPIB), galvanically isolated
HZ13	Interface cable (USB) 1.8 m
HZ14	Interface cable (serial) 1:1
HZ33	Test cable 50 Ω, BNC/BNC, 0.5 m
HZ34	Test cable 50 Ω, BNC/BNC, 1.0 m
HZ42	19" rackmount kit 2RU
HZ72	GPIB-cable 2 m
HZ181	4-terminal test fixture including shorting plate
HZ186	4-terminal transformer test cable

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