

CHARACTERISTICS

1502B METALLIC TDR CABLE TESTER

Test Signal—Step rise \square ,
Amplitude—300 mV nominal into 50 Ω load.
System Risetime—200 ps (1.15 in./2.92 cm).
Output Impedance—50 ohms \pm 1%.
Electrostatic Discharge Protection—1 kV/500 pF capacitor/1 k resistance.
DC Input Protection—+1 A.
Maximum Range—3,000 ft/500 meters.
Distance Readout Resolution—0.12 in./3.0 cm.
Noise Filtering—1 to 128 averages.
Vertical Scale—0.5 to 500 m/div.
Dist/Div—0.1 to 200 ft/div; 0.025 to 50 m/div.
Environmental—Meets capabilities of a Type III, Class 3, Style A instrument as prescribed by MIL-T-28800.

1503B METALLIC TDR CABLE TESTER

Test Signal— \square , sine.
Amplitude—Terminated: \pm 2.5 V. (Unterminated: \pm 5.0 V).
Pulsewidths—2, 10, 100, 1000 nsec.
Output Impedance—50, 75, 93, 125 Ω .
Input Protection— \pm 400 V (dc + peak ac).
Maximum Range—50,000 ft/10,000 meters.
Distance Readout Resolution—1.2 in./3.0 cm.
Noise Filtering—1 to 128 averages.
Vertical Scale—0 to 63.75 dB Gain.
Dist/Div—1 to 5000 ft/div; 0.25 to 1000 m/div.
Environmental—Meets capabilities of a Type III, Class 3, Style A instrument as prescribed by MIL-T-28800.

COMMON CHARACTERISTICS

The following characteristics are common to both the 1502B and 1503B.

POWER REQUIREMENTS

AC Power—Line Voltage: 115 V ac (90 to 132 V ac) and 230 V ac (180 to 250 V ac). Line Frequency: 45 to 440 Hz.

DC Power—Battery Pack Operation (Option 03): At least 5 hours (15 to 25°C charge and discharge temperature), no chart recordings. At least four hours, including 20 chart recordings.

Full Charge Time—20 hours maximum.

PHYSICAL CHARACTERISTICS

Dimensions	mm	in.
Width (w/handle)	315	12.4
Width (w/o handle)	300	11.8
Height	127	5.0
Depth (handle extended)	475	18.7
Depth (handle not extended)	419	16.5
Weight \approx	kg	lb
Net (w/front cover and accessories)	8.2	21
Net (w/o front cover or accessories)	7.3	15
Domestic Shipping (complete) \approx	11.1	27
Export Shipping (complete) \approx	16.3	42

ORDERING INFORMATION

1502B Metallic TDR \$5,525

Includes: AC power cord; 50 Ω BNC terminator (011-0123-00); precision 50 Ω cable (012-0482-00); female-to-female BNC connector (103-0028-00); spare fuse; operator's manual (070-6266-00).

1503B Metallic TDR \$4,200

Includes: AC power cord; 50 Ω BNC terminator (011-0123-00); precision 50 Ω cable (012-0482-00); spare fuse; 9 ft BNC-to-clip lead cable (012-0671-02); operator's manual (070-6268-00).

OPTIONS

Option 03—Battery Pack +\$175

Option 04—YTI Chart Recorder +\$950

Option 05—Metric Version NC

INTERNATIONAL POWER PLUG OPTIONS

Option A1—Universal Euro 220 V, 50 Hz

Option A2—UK 240 V, 50 Hz

Option A3—Australian 240 V, 50 Hz

Option A4—North American 240 V, 60 Hz

OPTIONAL ACCESSORIES (1502B/1503B)

Battery Pack—Order 016-0813-00*1

YTI Chart Recorder—

Chart Paper—

(1 roll) Order 006-7647-00*1

(25 rolls) Order 006-7677-00*1

(100 rolls) Order 006-7681-00*1

Terminator—75 Ω BNC.

Order 011-0102-00

\$18.75

(1502B only)

Service Manual—Order 070-6267-00*1

Adapters—

(Direct Current) Order 015-0327-00

\$260

(50/125 Ω)*2 Order 017-0090-00

\$195

(50/75 Ω)*2 Order 017-0091-00

\$195

(50/93 Ω)*2 Order 017-0092-00

\$195

Connectors—

BNC female-to-BNC male.

Order 103-0045-00

\$8.25

BNC female-to-clip leads.

Order 013-0076-00

\$40

BNC female-to-dual banana plug.

Order 103-0090-00

\$9.50

BNC female-to-F male.

Order 103-0158-00

\$10.75

BNC male-to-N female.

Order 103-0058-00

\$8.75

BNC male-to-UHF female.

Order 103-0032-00

\$6.50

BNC male-to-dual binding post.

Order 103-0035-00

\$14.75

(GR-to-BNC male)

Order 017-0064-00

\$100

(GR-to-BNC female)

Order 017-0063-00

\$55

(1503B only)

Service Manual—Order 070-6269-00*1

Isolation Network—Order 013-0169-00

\$275

Connectors—

BNC female-to-clip leads.

Order 013-0076-00

\$40

BNC male-to-female.

Order 013-0058-00*1

BNC female-to-dual banana plug.

Order 103-0090-00

\$9.50

BNC male-to-dual binding post.

Order 103-0035-00

\$14.75

BNC male-to-BNC male.

Order 103-0029-00

\$8

BNC female-to-UHF male.

Order 103-0015-00

\$5.75

BNC female-to-UHF female.

Order 103-0032-00

\$6.50

BNC female-to-type F male.

Order 103-0158-00

\$10.75

LOGISTICS INFORMATION

For logistics data, see Tektronix Logistics Data Book.

*1 Contact your local sales office.

*2 Should be purchased with the following connectors: BNC female-to-GR 017-0063-00; BNC male-to-GR 017-0064-00.