

Electrical Communication Adapters

AFTDS • AMT75

★ Features

AFTDS DIFFERENTIAL SIGNAL ADAPTER FOR ELECTRICAL COMMUNICATION

- Complies with ANSI T1.102 and ITU-T G.703 Standards
- Ideal for Pulse Shape Analysis or Eye-Pattern Testing
- 120 MHz Bandwidth
- Low VSWR (Return Loss) < 1.1:1, (> 26 dB)
- Connects Directly to TDS Series Scope (TekProbe® Interface) or Other 50 Ω Terminated Instruments
- CE Certified

AMT75 75 Ω ADAPTER FOR ELECTRICAL COMMUNICATION AND VIDEO SIGNALS

- Complies with ANSI T1.102, ITU-T G.957, ITU-T G.703 Standards and Bellcore GR-253-CORE
- Ideal for Pulse Shape Analysis or Eye-Pattern Testing
- 1.0 GHz Bandwidth
- Low VSWR (Return Loss) ≤ 1.1:1, (≥ 26 dB)
- Connects Directly to TDS Series Scope (TekProbe Interface) or Other 50 Ω Terminated Instruments



The AFTDS Differential Signal Adapter and the AMT75 75 Ω Adapter provide an effective means for 50 Ω terminated instruments to connect to and analyze differential and high speed electrical communication signals as well as video signals.

Both adapters are rugged and have the TekProbe interface which provides convenient auto-scaling of waveforms on Tektronix TDS series oscilloscopes. Also the low VSWR (Return Loss) performance minimizes measurement errors commonly associated with interfacing with complex electrical signals

Ideal for use in pulse shape compliance testing of high speed electrical communication signals.

CHARACTERISTICS

AFTDS DIFFERENTIAL SIGNAL ADAPTER

Electrical Standards –

DS-1	(1.544 Mb/s)
DS-1A	(2.048 Mb/s)
DS-1C	(3.152 Mb/s)
DS-2	(6.312 Mb/s)
E-1	(2.048 Mb/s)

Standards of Compliance –

ANSI T1.102
ITU-T G7.03

Bandwidth (-3 dB) –

7 kHz to 120 MHz

Rise Time –

< 3.0 ns

Attenuation –

5X, (-14dB) ± 5.0%
(valid over 50 kHz to 30 MHz)

Droop –

≤ 2.0 % per 700ns

VSWR (Return Loss) –

≤ 1.1:1 (> 26 dB), typical
(valid over 50 kHz to 30 MHz)

AMT75 75 Ω ADAPTER

Electrical Standards –

DS-3	(44.736 Mb/s)
DS-4	(139.264 Mb/s)
STS-1	(51.84 Mb/s)
STS-3	(155.51 Mb/s)
STM-1	(155.51 Mb/s)
E-2	(8.448 Mb/s)
E-3	(34.368 Mb/s)
E-4	(139.264 Mb/s)
D-1	(270 Mb/s)
D-2	(143 Mb/s)

Standards of Compliance –

ANSI T1.102, ITU-T G.957,
ITU-T G7.03, Bellcore GR-253-CORE

Bandwidth (-3dB) –

DC to 1.0 GHz (typical)

Rise Time –

< 350 ps (typical)

Attenuation –

5X, (-14 dB) ± 2.0%

VSWR (Return Loss) –

≤ 1.1:1 (≥ 26 dB), up to 1 GHz (typical)



See Tektronix on the World Wide Web:
<http://www.tek.com>

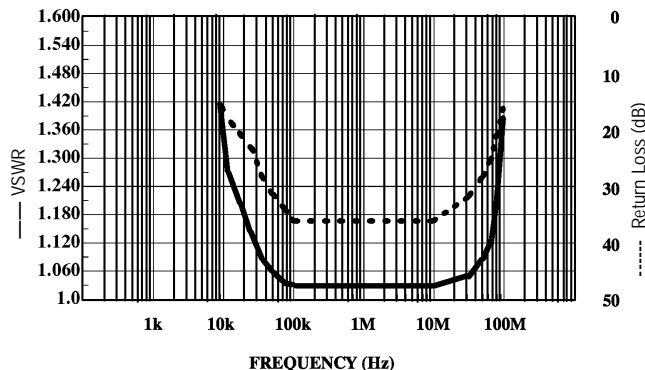


Tektronix Measurement
products are manufactured
in ISO registered facilities.

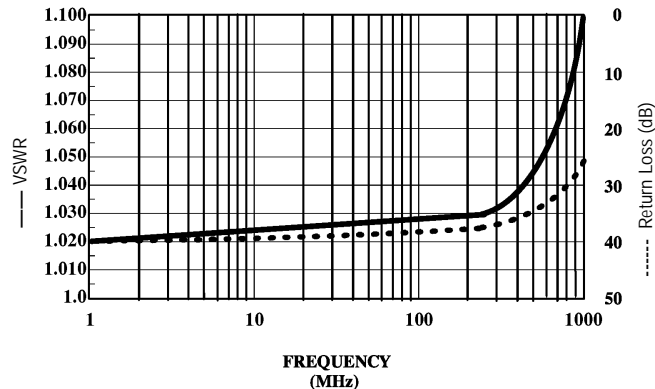
Tektronix

Electrical Communication Adapters

AFTDS • AMT75



AFTDS VSWR/Return Loss



AMT75 VSWR/Return Loss

AFTDS FEATURES

- TekProbe® interface –
- Auto-scaling and auto-termination with Tektronix TDS scopes
- Input Impedance –**
100 Ω, 110 Ω, or 120 Ω ± 3.0% (Selectable)
(Valid over 50 kHz to 30 MHz)
- Load Impedance –**
50 Ω ± 3.0%
- Safety –**
CE, UL

AMT75 FEATURES

- TekProbe® interface –
- Auto-scaling and auto-termination with Tektronix TDS scopes
- Input Impedance –**
75 Ω ± 1.5%
- Output Impedance –**
50 Ω ± 1.5%

ORDERING INFORMATION

AFTDS DIFFERENTIAL SIGNAL ADAPTER

Includes: Bantam (M) to Siemens (F) Cable, 5 inch (012-1520-00), Users Manuals (English) (070-9483-00), Certificate of Traceable Calibration

Recommended Accessories

Siemens (M) to Siemens (M) Cable 2 m (6.5 ft), 120 Ω (012-1469-00)

Bantam (M) to Bantam (M) Cable 0.9 m (3 ft) (012-1522-00)

Bantam (M) to RJ11 (M) Cable 1.8m (6 ft) (012-1521-00)

RJ45/RJ11 (F) to RJ45 (F) Adapter (103-0409-00)

Opt 95 Calibration Data

AMT75 75 Ω SIGNAL ADAPTER

Includes: Users Manuals (English only) (070-9479-00), Certificate of Traceable Calibration

Recommended Accessories

75 Ω, BNC (M) to BNC (M) Coaxial Cable 2 ft (012-1339-00)

50 Ω, BNC (F) to BNC (F) Feed-through Adapter (103-0028-00)

Opt 95 Calibration Data

OPTIONAL ACCESSORIES FOR INSTRUMENT CONNECTIONS

50 Ω, BNC (M) to BNC (F) Coaxial Cable 18 inch (012-0104-00)

50 Ω, BNC Coaxial Terminator Adapter (011-0049-01)

50 Ω, BNC (F) to SMA (M) Adapter (015-0554-00)

RECOMMENDED OSCILLOSCOPES

TDS 500 Series Digitizing Oscilloscopes

TDS 600 Series Digitizing Oscilloscopes

TDS 700 Series Digitizing Oscilloscopes

TDS 800 Series Digitizing Oscilloscopes

11800 Series Digital Sampling Oscilloscopes

CSA 803 Series Communications Signal Analyzer

For further information, contact Tektronix:

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