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OPTO-ELECTRONICS INC.

RESEARCH IN ELECTRO-OPTICS

THE RLM10
RETURN LOSS METER

FOR SINGLEMODE FIBER AT 1300 NM AND 1550 NM



DESCRIPTION

The Opto-Electronics model RLM10 is designed to measure Return Loss and Insertion Loss of singlemode fiber optical components such as fiber cable and patch cords as well as passive components such as isolators, switches attenuators etc.

The RLM10 is well suited to a manufacturing environment; it measures both the Return Loss and Insertion Loss of a DUT at 1300 nm and 1550 nm in less than 10 seconds. Values of Return Loss as high as 80 dB can be measured with an accuracy of better than ± 1 dB, and Insertion Loss is measured to within ± 0.02 dB.

The RLM10 is designed to measure Return Loss for devices under test which lie in the range of 1.2 to 10 meters from the instrument output connector; the result is independent of reflections from other in-line connectors.

The measured values of the Return Loss and Insertion Loss at the two wavelengths can be read directly from the LCD screen. Alternatively, the instrument can be fully controlled through the GPIB interface provided.

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PRELIMINARY SPECIFICATIONS

WAVELENGTH RANGE ..... Standard operation is at both 1300 nm and 1550 nm

RETURN LOSS:
- High Sensitivity Range ..... 60 to 80 dB
- Low Sensitivity Range ..... 45 to 65 dB
- Accuracy ..... ± 1 dB

INSERTION LOSS
- Dynamic Range ..... 0 to 60 dB
- Accuracy..... ± 0.03 dB

CALIBRATION ..... An internal Reference is provided for Return Loss.

DISTANCE ..... Device under test can be as little as 1.2 meters from the RLM10 output connector. Maximum distance is 10 m. The length of an input reference cable can be entered on the front panel.

ORDERING and SHIPPING INFORMATION

Standard models:	RLM10 - Connector Type
Included Items:	Operating Manual, An adaptor Cable.
Delivery:	14 to 16 weeks ARO.
Shipping weight:	Approximately 15 lbs (7 kg).

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We buy equipment

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