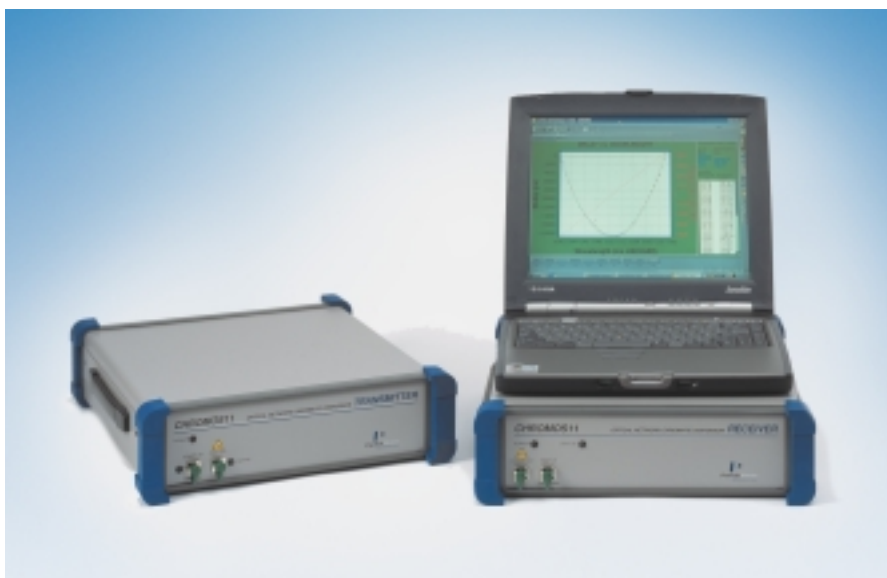


CHROMOS11

Optical Network Chromatic Dispersion and P.M.D. Test Set



Description

The new PerkinElmer CHROMOS11 chromatic dispersion measurement test set has been designed specifically for use with installed high capacity amplified WDM transmission systems, including networks with integral EDFAs.

Optionally, a PMD measurement function can be added allowing full network PMD to be characterised.

Features

- Tunable Laser Source for improved accuracy and dynamic range
- Direct dispersion measurement over C and or L bands
- Measurements in networks with multiple optical amplifiers
- Excellent resolution and accuracy over a very wide dispersion range
- 30 seconds typical measurement time
- Up to 60dB loss budget (dynamic range)
- PMD Measurement Option

Overview

The CHROMOS11 is the first of a new series of portable test instruments designed by PerkinElmer to provide accurate in-system chromatic dispersion measurement. It allows transmission system suppliers and operators to measure the total end-to-end dispersion of both repeaterless and line-amplified systems with the minimum of disruption. Chromatic dispersion and also PMD at any wavelength in the C or L bands can be measured accurately enabling the performance of 10 and 40Gbit/s WDM systems to be predicted and optimised.

CHROMOS11

Overview (cont.):

New or existing installed systems containing amplifiers or WDM components can be assessed for upgrades and dispersion compensation management schemes measured and monitored over the entire wavelength range.

A Tunable Laser Source in the remote Transmitter provides both wavelength agility and compatibility with line amplified systems. Measurement is controlled by specialist software running on a PC connected to the Receiver. The CHROMOS11 instrument outputs all major chromatic dispersion measurement parameters.

An optional feature is the measurement of the network PMD using the wavelength scanning method. This will operate with amplified networks and systems.

Outline Specifications

Dynamic (Loss) range	Up to 60dB span loss
Wavelength range	C and/or L Bands, (see below)
Measurement speed	30 secs, typical
Typical dispersion accuracy *	+/- 1 %
Typical dispersion slope accuracy*	+/- 1 %
Absolute wavelength accuracy	+/- 0.1nm
PMD range (-PMD option)	1-192ps, 0.5-192ps for - CL - PMD model
Size	Receiver 35w x 33d x 10.5h (cm.) Transmitter 35w x 33d x 10.5h (cm.)
Total weight (both units)	18kg including laptop PC controller

* Accuracy figures depend upon the measurement application.

Ordering Information

The CHROMOS11 is supplied in a portable form configured as a Transmitter and Receiver together with a Laptop PC and associated software for control and display.

The CHROMOS11-C covers the 1525-1575 nm wavelength range.

The CHROMOS11-L covers the 1569-1620 nm wavelength range.

The CHROMOS11-CL covers the 1525-1620 nm wavelength range.

To add PMD to any of these modes add "-PMD" suffix e.g. CHROMOS11-C-PMD

For more information e-mail us at sales.fiberoptics@perkinelmer.com or visit our web site at www.perkinelmer.com/opto

PerkinElmer Optoelectronics reserve the right to change or amend specifications and/or configurations at any time without notice.

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