

General

The AP6010 is designed for chromatic dispersion and length measurements of singlemode optical fibers and uses an operating principle which is based upon a phase-shift method per IEC 60793-1-42 and ITU-T G.650.

Seven DFB laser diodes with wavelengths ranging between 1200nm to 1600nm are used as optical signal



Chromatic dispersion is calculated from the delayed signals of these internal laser diodes. The approximation formulae conforms to ITU and IEC standards.

The data acquisition, processing and control of the AP6010 is done by an external Windows based computer.

Features

- Conforms to ITU and IEC standards
- Phase-shift method
- Maximum attenuation : 20dB
- Wavelength range 1200nm to 1600nm
- Low cost

Specifications

Wavelength range	1200nm to 1600nm
Number of measuring LDs	7
Maximum fiber attenuation	20dB
Distance range	0.5km to 30km
Uncertainty :	
- Dispersion coefficient	1%
- Zero wavelength	0.5nm
- Slope	1.0%
Repeatability	
- Dispersion coefficient	0.005%
- Zero wavelength	0.1nm
- Slope	0.1%
Length uncertainty, m	$0.2+5 \times 10(-5) \times L$
Operating temperature	+10°C to +30°C
Relative humidity	80% at 20°C
Atmospheric pressure	84 to 106.7 kPa
Dimensions	300mm x 293mm x 60mm
Weight	6Kg

Ordering information

AP6010 : Chromatic Dispersion Test Set

Specifications are subject to change without notice.