

Xtract

Tunable Optical Channel Drop Unit



KEY FEATURES

- Ideal tool for channel selection and extraction from DWDM signals
- Clean channel extraction
- Covers all the transmission bands
- Ready for next generation DWDM transport systems

Xtract features a square flat-top tunable filter allowing clean DWDM optical channel extraction.

Ideal Tool for Channel Selection and Extraction from DWDM Signals

Xtract accurately isolates a DWDM channel for BERT or Q-factor measurements. It features automatic channel detection with a relative wavelength accuracy of ± 15 pm.

Clean Channel Extraction

Xtract's square flat-top filter shape prevents any corruption of the data. This ensures proper signal conditioning before additional testing of the selected channel.

Covers all the Transmission Bands

Xtract operates from 1450 to 1650 covering the E-, S-, C- and L-bands.

Ready for Next Generation DWDM Transport Systems

Xtract is suitable for systems down to 12.5 GHz channel spacing as well as up to 40 Gb/s modulation rate. The fixed bandwidth of the filter, from 100 to 800 pm, is user-defined at the time of order.



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& design



manufacturing



installation
& maintenance



network
monitoring



optical
components

Specifications

Xtract, Tunable Filter	
Optical Specifications	
Wavelength range	1450-1650 nm
Relative wavelength accuracy	±0.015 nm
Wavelength resolution	0.005 nm
Center wavelength linearity	±0.05 nm
Center wavelength stability ¹	<±0.05 nm
Insertion loss ²	5.5 dB (5 dB typ.)
Polarization dependent loss ³	±0.2 dB
Optical Bandwidth Specifications	
Optical bandwidth (FWHM) ⁴	from 100 to 800 pm
Optical bandwidth accuracy	±10 pm
Flatness ⁵	0.2 dB
Crosstalk ⁶	40 dB (-50 dB typ.)
Interface	
Optical connector	FC-PC on SMF-28™ fiber
General Specifications	
Operating temperature range	+15 to +35°C (+60 to +85°F)
Power supply	100 to 240 V (50 to 60 Hz)
Dimensions (W x H x D)	448 x 133 x 370 mm ³
Weight	10 kg

Notes

- Over one hour after 2 hour warm-up at 23°C ±2°C
- From 1500 to 1600 nm
- At 1500 and 1600 nm
- User-defined at the time of order, larger bandwidth available on customer request (up to 5 nm)
- Measured within the central part of the optical bandwidth: FWHM-120 pm, applicable when FWHM > 120 pm
- Measured 60 pm away from the -3 dB points

Ordering Information

Please specify:
Xtract XXX
 Where XXX is the optical bandwidth in pm

Accessories

Use the following description that correspond to the available accessory:
Description
 Carrying case



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