| SPECIFICATIONS | | | | |
|--|--|-------------------------|----------------------------|----------------------------|
| Optical characteristics | XTA-50 Standard | XTA-50 Ultrafine | XTA-50 O-band ^a | XTA-50 Wide |
| Wavelength range (nm) | 1450-1650 | 1480-1620 | 1260-1360 | 1525-1610 |
| Wavelength resolution (pm) | 1 | 1 | 1 | 1 |
| Wavelength accuracy (pm) ^b | ±30 | ±30 | ±30 | ±30 |
| Wavelength tuning speed (s) | 1 | 1 | 1 | 1 |
| Minimum bandwidth (FWHM) | 50 pm (6.25 GHz) | 32 pm (4 GHz) | 50 pm (8 GHz) | 50 pm (6.25 GHz) |
| Maximum bandwidth (FWHM) | 950 pm (120 GHz) | 650 pm (80 GHz) | 900 pm (160 GHz) | 5000 pm (625 GHz) |
| Bandwidth resolution (pm) | 1 | 1 | 1 | 1 |
| Bandwidth tuning speed (s) | 1 | 1 | 1 | 1 |
| Filter edge roll-off (dB/nm) | 500 (typical) ^c | 800 (typical) | 500 (typical) ^c | 500 (typical) ^d |
| Insertion loss (dB) | 5 (4.5 dB typical) e, f | 5 (4.0 dB typical) f, g | 5 (4.5 dB typical) f, h | 5 (4.5 dB typical) i, j |
| Flatness (dB) | 0.2 ^k | 0.2 | 0.3 ^{k, m} | 0.2 ⁿ |
| Polarization dependent loss (dB) | ±0.2 ° | ±0.2 ^g | ±0.2 h | ±0.2 i |
| Out-of-band suppression (crosstalk) (dB) | 40 (60 dB typical) ° | 40 (50 dB typical) ° | 40 (60 dB typical) ° | 40 (45 dB typical) ° |
| Interfaces | | | | ' |
| Display | 7 inch resistive touch-screen (resolution 800 x 480) | | | |
| Communication interfaces | USB-B, Ethernet (x2), RS-232C, GPIB P | | | |
| Display and other interfaces | DVI-I (x1), USB 2.0-A (x4), PS/2 (x2) | | | |
| Optical fiber type | SMF or PMF SM | | | SMF |
| Connector type | FC/PC or FC/APC | | | |
| Operating conditions | | | | |
| Temperature range | 15 °C to 35 °C (59 °F to 95 °F) | | | |
| Maximum optical input power (dBm) | 30 | | | 27 |
| Size | | | | |
| Dimensions (W x D x H) | 254 x 385 x 154 mm (10 in x 15 ½ in x 6 in) | | | |
| Weight | 7 kg (15.4 lb) | | | |

All specifications are given at 21° \pm 3°C after 30 minutes warm-up.

Notes

- a. Specifications apply for wavelengths not equal to anywater absorption line.
- b. With "Backlash suppression" setting enabled.
- c. Between –3 and –40 dB for FWHM <800 pm.
- d. Between -3 and -40 dB. Typically 550 dB/nm at FWHM = 50 pm, 450 dB/nm at FWHM = 1 nm, 225 dB/nm at FWHM = 5 nm.
- e. From 1500 nm to 1600 nm and FWHM \geq 100 pm.
- f. At lowest FWHM the insertion loss is 7 dB typical.
- g. From 1500 nm to 1600 nm and FWHM >60 pm.
- h. From 1280 nm to 1340 nm and FWHM \geq 100 pm.
- i. For FWHM >100 pm.
- j. At lowest FWHM the insertion loss is $\!<$ 7.0 dB.
- k. Centered width of FWHM-150 pm. For 150 pm < FWHM < 650 pm.
- l. Centered width of FWHM-100 pm. For 100 pm < FWHM < 500 pm.
- m. From 1280 nm to 1340 nm.
- n. Centered width of FWHM-150 pm. For 150 pm < FWHM < 2000 pm.
- o. Measured 1 nm away from the -3 dB points.
- p. GPIB is supported as an option through an external RS-232/GPIB converter.

