SPECIFICATIONS

		Essential models		Extended range models			
		T100S-HP-O	T100S-HP-CL	T100S-HP-O+	T100S-HP-ES	T100S-HP-SCL	T100S-HP-CLU
Wavelength (nm)		1260-1360	1500-1630	1240-1380	1350-1510	1440-1640	1500-1680
Output power	Over full wavelength range (dBm)	≥ 10		≥ 8			
	Peak (dBm)	≥ 13					
Signal to source spontaneous emission ratio (dB) [a]		≥ 90 (100 dB typical)					
Side mode suppression ratio (dB) [b]		≥ 45					
Stability [c]	Wavelength	±5 pm/h (±3 pm/h ; ±5 pm/24h typical)					
	Output power	±0.01 dB/h (±0.025 dB/24h typical)					
Relative intensity noise (dB/Hz) [d]		< −140					
Spectral width (FWHM)		> 100 MHz (coherence control on)					
		400 kHz typical (coherence control off)					
Absolute wavelength accuracy [e]		±20 pm					
Wavelength setting repeatability		5 pm (typical)					
Wavelength setting resolution		1 pm (0.1 pm in fine tuning mode)					
Fine tuning mode range		±25 pm (±2 GHz)					
Tuning speed in step mode		Approximately 1 s for 100 nm step					
Mode-hop-free range [f]		Full wavelength range					
Continuous sweep speed		Adjustable from 1 to 100 nm/s					
Power flatness during sweep (dB)		±0.25 (typical)					
Power repeatability sweep to sweep (dB) [g]		±0.05 (typical)					
Low frequency modulation		DC to 8 MHz (sinusoidal), DC to 1 MHz (TTL)					
High frequency modulation		30 kHz to 200 MHz					
Output fiber type		SMF or PMF (option)					
Output connector		FC/APC					
Communication interfaces [h]		RS-232C and GPIB (IEEE-488.1)					
Temperature / humidity range		15 °C to 30 °C (60 °F to 85 °F) / <80% (non-condensing)					
Power supply		100 to 240 V a.c. / 50 to 60 Hz / 60 W					
Laser safety classification		Class 1M					
Dimensions (W x D x H)		448 x 370 x 133 mm (17 ⅝ in x 14 ½ in x 5 ¼ in)					
Weight		12.5 kg (27.5 lb)					

All specifications are given after 60 minutes warm-up and apply for wavelengths not equal to any water absorption.

Notes

a. Measured over a 0.1 nm bandwidth ±1 nm from the signal.
b. For output power ≥ 0 dBm.
c. Over one hour at constant temperature.
d. RIN within the range 100 MHz-3 GHz measured at 8 dBm output power with RBW = 30 kHz.
e. O and CL at 10 dBm. Others at 8 dBm, ±40 pm all at 0 dBm.
f. Validated at 0 and 10 dBm for essential and 0 and 8 dBm for extended range models.
g. Over 100 wavelength scans at constant temperature.
h. GPIB tested and validated with National Instruments GPIB Board.

LASER SAFETY