

Applications:

- Optical coherence tomography
- Optical metrology
- Optical measurements

Features:

- Wide optical spectrum: 165-nm FWHM
- Coherence length* of about 2.7 μm (in air)
- High output power
- Low Relative Intensity Noise (RIN)

* Coherence length is determined as full width at half maximum of the coherence function plotted versus mirror displacement.

Specifications:

T-850-HP-I – optically isolated model.

T-850-HP – model without optical isolator for applications with optical feedback of less than -25 dB.

Parameter	Model	Min	Typ	Max
SM-Fiber output power, mW	T-850-HP	12	15	-
	T-850-HP-I	8.0	10	-
Mean wavelength, nm	All	840	-	860
Bandwidth (FWHM), nm	All	155	165	-
Residual spectral modulation depth (0.05 nm resolution), %	All	-	2	5
Spectral flatness, %	All	-	-	45
Long-term stability, %**	All	± 0.5		
Short-term stability, %***	All	± 0.1		

** Measurements taken every minute for 8 hours with 100 ms integration time.

*** Measurements taken every second for 15 minutes with 100 ms integration time.

All measurements were taken after a one-hour warm-up period at an ambient temperature of 22 ± 0.5 °C.

Power requirements: 110 V AC or 220 V AC, 50/60 Hz

Operating temperature range: 0 °C to +40 °C

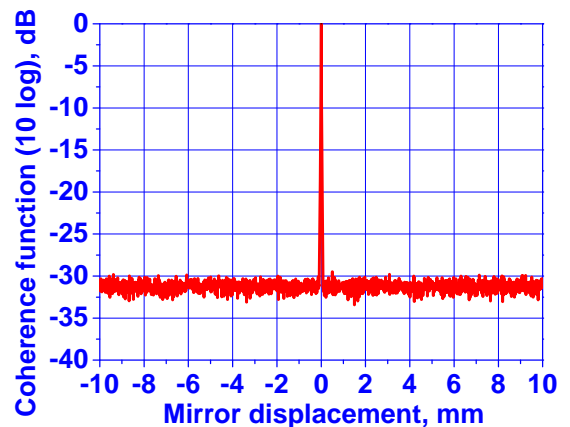
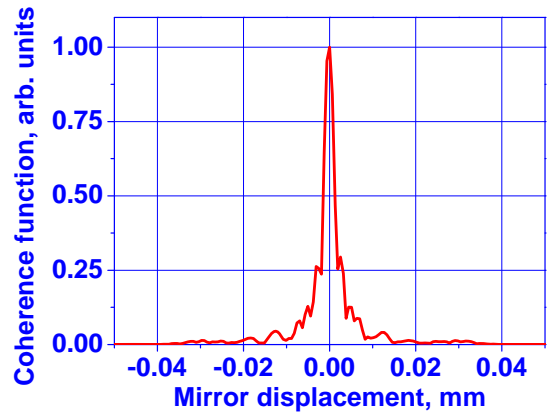
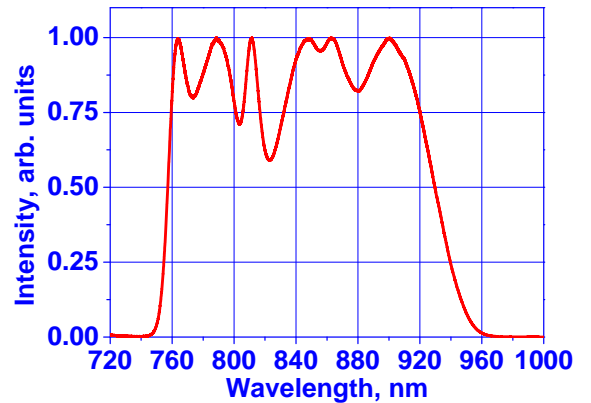
Optical output: FC/APC

Fiber: Corning HI 780

A maximum optical feedback of -25 dB is allowed to run the model without optical isolator (T-850-HP) safely at full power.

All specifications are subject to change without notice.

PERFORMANCE EXAMPLES



Mirror displacement = Optical path difference / 2.
Spatial resolution of measurements is 0.5 μm .