

| Tunable Fiber Laser - Test Report |                                       |             |
|-----------------------------------|---------------------------------------|-------------|
| Product:                          | Tunable Fiber Laser (Model: Customer) |             |
| Product Code:                     | TFL-1310-C                            | SN-13205020 |

| Parameter:                     | Test Data         |                    |                    |
|--------------------------------|-------------------|--------------------|--------------------|
| Wavelength tuning: (nm)        | Start wavelength: | 1319.96            |                    |
|                                | Stop wavelength:  | 1280.84            |                    |
| Bandwidth @ -3dB: (nm)         | 0.1               | Tuning range: (nm) | 35                 |
| Optical S/N ratio: (dB)        | 70                | Output power: (mW) | 25                 |
| Beam quality (M <sup>2</sup> ) | <1.1              | Fiber type:        | Corning SMF-28     |
| Fiber termination:             | FC/APC connector  | Tuning type:       | Newport micrometer |

**Tunable Laser Test Results:**

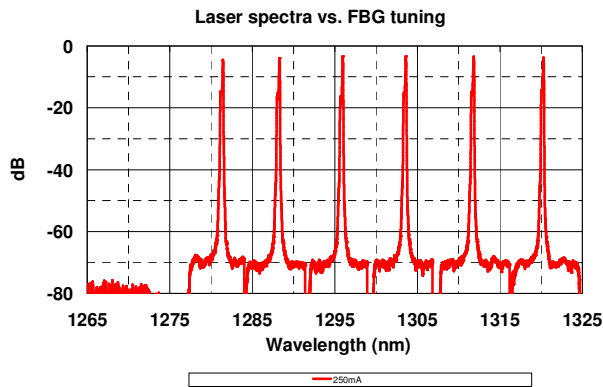


Fig.1 Output of tunable fiber laser @ drive current of 250mA.

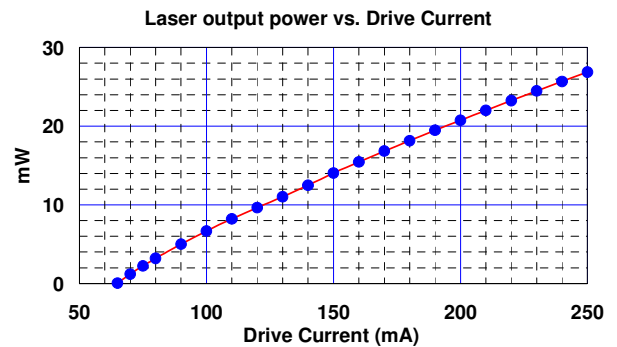


Fig.2 Laser output power vs. Pump LD current

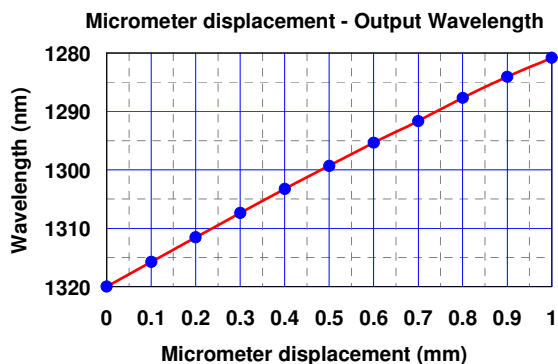


Fig.3 Micrometer displacement vs. Wavelength

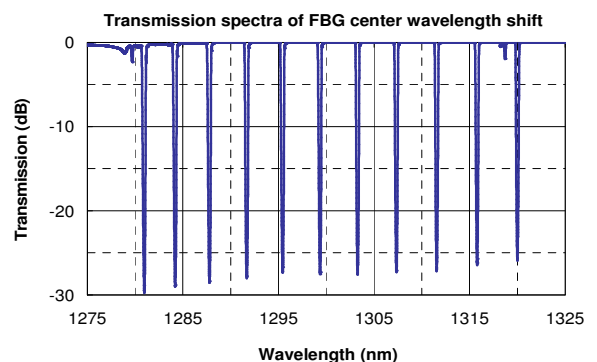


Fig.4 Tunable FBG Test Results-Transmission spectra

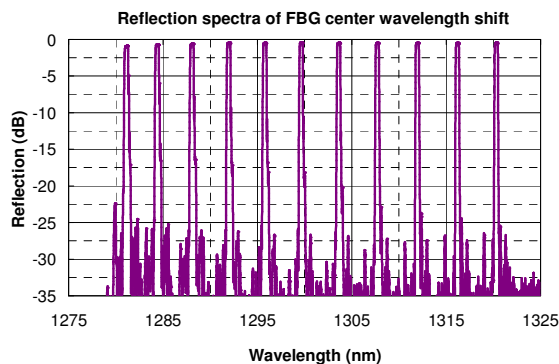


Fig.5 Tunable FBG Test Results-Reflection spectra

**Notes:**

Test condition is at 22°C, spectral resolution is set at 0.01nm. Performance may vary slightly depending on the ambient temperature.