

Test Report

**Item #: UNL15TK S/N: IBU-14-1116**

Tested by: SM Date: February 21th, 2023

Inspected by: RS

**Summary of Test Data**

|  |  |  |
| --- | --- | --- |
| **Parameter**\* | **Value** | **Unit** |
| Operating Current | 640 | mA |
| Center Wavelength  | 1550.08 | nm |
| Output Power | 106 | mW |
| Linewidth  | 96 | Hz |
| Side Mode Suppression Ratio (SMSR) at Operating Current | 71 | dB |

\* Measurement conditions: Laser chip temperature at 25°C and FBG temperature at 26°C.

Output fiber: PM1550 with FC/APC connector. Laser shipped with default operating current at 640mA.



Figure 1 Laser output frequency noise at 640mA pump current. Measured with OE wave 4000 noise analyzer.



Figure 2 Laser relative intensity noise at 640mA pump current. Measured with OE wave 4000 noise analyzer.



Figure 3 Laser output spectrum at 640mA pump current, measured with Yokogawa AQ6370D OSA, limited by OSA resolution bandwidth 0.02nm.



Figure 4 Output power for single-mode only regions, FBG temperate at 26°C.



Figure 5 Center wavelength turning with pump current and FBG temperature, device is factory set to 640 mA, 26°C FBG temperature.