

## 2.3 con't

### 2.3.2 Performance Specifications

|   | <u>120-01</u> | <u>120-02</u> | <u>120-03</u>            | <u>120-04</u> |
|---|---------------|---------------|--------------------------|---------------|
| Wavelength (nanometers)                     | 1064          | 1319          | 1064                     | 1319          |
| CW Outout Power (mW)                        | 4.0           | 2.5           | 40.0                     | 25.0          |
| Beam Diameter @ 1/e <sup>2</sup> point (mm) | 0.8           | 0.9           | 0.5                      | 0.6           |
| Beam Divergence Full Angle (mrad)           | 1.7           | 1.9           | 2.7                      | 3.0           |
| Polarization Ratio                          |               |               | 100:1                    |               |
| Spatial Mode                                |               |               | TEM <sub>00</sub>        |               |
| Ellipticity                                 |               |               | 1.3:1                    |               |
| Linewidth (1ms)                             | 5kHz          | 5kHz          | 5kHz                     | 5kHz          |
| Jitter (1 sec)                              | 75kHz         | 75kHz         | 300kHz                   | 300kHz        |
| Drift (per hour)                            | 50MHz         | 50MHz         | 50MHz                    | 50MHz         |
| Frequency Scanning Range                    | 15GHz         | 15GHz         | 15GHz                    | 15GHz         |
| Frequency Scanning Rate                     | 1GHz/sec      | 1GHz/sec      | 1GHz/sec                 | 1GHz/sec      |
| Fast Frequency Tuning (Option A):           |               |               |                          |               |
| PZT Tuning Coefficient                      |               |               | 1MHz/Volt                |               |
| Response Bandwidth                          |               |               | 100kHz                   |               |
| Maximum Voltage                             |               |               | +/-15 V                  |               |
| Amplitude Stability (rms)                   | 1%*           | 1%*           | 1%*                      | 1%*           |
| Utility Requirements:                       |               |               |                          |               |
| Voltage                                     |               |               | 120 & 220 VAC +/- 20%    |               |
| Frequency                                   |               |               | 50/60 Hz                 |               |
| Power (maximum)                             | 8W            | 8W            | 32W                      | 32W           |
| Environmental Requirements:                 |               |               |                          |               |
| Temperature                                 |               |               | 10 to 35 degrees Celsius |               |
| Relative Humidity (non-condensing)          |               |               | 10 to 90%                |               |
| Weight                                      |               |               | 7.5lbs/3.4kgs            |               |
| Shipping Weight                             |               |               | 15lbs/6.8kgs             |               |
| Size  |               |               | See Outline Drawing      |               |

\* Noise is limited to components at the line frequency and to relaxation oscillations in the 300 kHz range. At other frequencies noise is virtually zero.

NOTE: Specifications are subject to change without notice