

## 895nm Single Mode EEL

(Part Number: EEL-895-100mW-SM-TO)

### Applications:

1. Rb Atomic clock;
2. Rb Magnetometer;
3. Quantum sensing.

### Features:

1. High single mode power;
2. Single-transverse-mode and linear polarization;
3. Narrow linewidth (spectral width).

**Specification:**

| <b>ELECTRO-OPTICAL CHARACTERISTICS</b>     |            |            |            |                       |
|--|------------|------------|------------|-----------------------|
| <b>PARAMETER</b>                           | <b>MIN</b> | <b>TYP</b> | <b>MAX</b> | <b>TEST CONITIONS</b> |
| Emission Wavelength (nm)                   |            | 894.6      |            | Vacuum                |
| Chip Temperature (°C)                      |            | 25         | 60         | adjusted by TEC       |
| Threshold Current (mA)                     | 30         | 50         | 60         |                       |
| Output Power (mW)                          |            | 100        |            | @120mA                |
| Differential Series Resistance (Ω)         |            | 50         |            |                       |
| Wavelength Tuning Over Temperature (nm/°C) | 0.05       | 0.06       | 0.07       |                       |
| Wavelength Tuning Over Current (nm/mA)     |            | 0.003      |            |                       |
| Operating Voltage (V)                      |            | 2.5        |            |                       |
| Side Mode Suppression (dB)                 | 30         | 35         | 40         |                       |
| Polarization Extinction Ratio (dB)         |            | 12         | 16         |                       |
| Spectral Bandwidth (MHz)                   |            | 10         |            |                       |
| <b>Thermal Parameters</b>                  |            |            |            |                       |
| Storage Temperature Range (°C)             | 25         |            | 125        |                       |
| <b>Package</b>                             |            |            |            |                       |
| Package Type                               | TO         |            |            |                       |

**Pictures:**

