

895nm Single Mode Non-Magnetic VCSEL Module

(Part Number: VCSEL-895-0.1mW-SM-NM-G1)

Applications:

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

Features:

1. Circular beam spot and low divergence angle;
2. Single-transverse-mode and linear polarization;
3. Narrow linewidth (spectral width)
4. Non-Magnetic material employed.
5. Operating temperature: $70 \pm 5^{\circ}\text{C}$.

Specification:

| ELECTRO-OPTICAL CHARACTERISTICS | | | | |
|--|------------|------------|------------|-----------------------|
| PARAMETER | MIN | TYP | MAX | TEST CONITIONS |
| Emission Wavelength (nm) | | 794.98 | | Vacuum |
| Operating Temperature (°C) | 65 | 70 | 75 | |
| Threshold Current (mA) | 0.4 | 0.6 | 0.8 | |
| Output Power (mW) | | 0.1 | | @1.2mA |
| Wavelength Tuning Over Temperature (nm/°C) | 0.05 | 0.06 | 0.07 | |
| Side Mode Suppression (dB) | 20 | 25 | 30 | |
| Polarization Extinction Ratio (dB) | | 12 | 16 | |
| Beam Divergence (°) | | 10 | | 1/e ² |
| Spectral Bandwidth (MHz) | 40 | 60 | 80 | |
| Thermal Parameters | | | | |
| Storage Temperature Range (°C) | 25 | | 125 | |
| Package | | | | |
| Package Type | TO | | | |

Pictures:



