

795nm High Single Mode Power VCSEL in TO Can

(Part Number: VCSEL-795-1mW-SM-TO-G2)

Applications:

1. Magnetometers;
2. Gyroscopes;
3. Quantum Sensing;
4. Scientific Research.

Features:

1. High single-transverse-mode power ($\geq 1\text{mW}$) under wide temperature range (up to 90°C);
2. Circular beam spot and low divergence angle (as low as 10°);
3. Linear polarization with high polarization extinction ratio (up to 25dB);
4. Narrow linewidth (spectral width).

Specification:

| ELECTRO-OPTICAL CHARACTERISTICS | | | | |
|--|----------------|------------|------------|-----------------------|
| PARAMETER | MIN | TYP | MAX | TEST CONITIONS |
| Emission Wavelength (nm) | | 794.98 | | Vacuum |
| Operating Temperature (°C) | 45 | 50 | 55 | |
| Threshold Current (mA) | 0.8 | 1.0 | 1.2 | |
| Output Power (mW) | | 1 | 1.5 | @3mA |
| Wavelength Tuning Over Current (nm/mA) | | 0.3 | 0.6 | |
| Wavelength Tuning Over Temperature (nm/°C) | | 0.06 | | |
| Side Mode Suppression (dB) | | 25 | 35 | |
| Maximum Operating Current | | 3 | | |
| Polarization Extinction Ratio (dB) | | 20 | 25 | @3mA |
| Beam Divergence (°) | 10 | | 25 | 1/e ² |
| Spectral Bandwidth (MHz) | | 70 | | Unmodulated |
| Thermal Parameters | | | | |
| Operating Temperature Range (°C) | -10 | | 55 | |
| Storage Temperature Range (°C) | -40 | | 125 | |
| Package | | | | |
| Package Type | TO46 2pin/3pin | | | |



长春中科长光时空光电技术有限公司

Dimension: