

## 795nm Single Mode VCSEL Bare Chips

(Part Number: VCSEL-795-0.1mW-SM-BC-G3)

### Applications:

1. Rb Atomic clock;
2. Rb 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. Operating temperature:  $70 \pm 5^{\circ}\text{C}$ .

**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)		794.98		Vacuum
Operating Temperature (°C)	65	70	75	
Threshold Current (mA)	0.4	0.6	0.8	
Output Power (mW)		0.1	0.2	@1.5mA
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 <sup>2</sup>
Spectral Bandwidth (MHz)	40	60	80	
<b>Thermal Parameters</b>				
Storage Temperature Range (°C)	25		125	
<b>Package</b>				
Package Type	Bare Chips			

**Pictures:**

