

## 780nm Single Mode VCSEL Bare Chips

(Part Number: VCSEL-780-0.1mW-SM-BC-G3)

### Applications:

1. Rb Atomic Clock.

### Features:

1. Designed for Rb D2 line;
2. Circular beam spot and low divergence angle;
3. Single-transverse-mode and linear polarization;
4. Stable single mode power (0.1mW) ;
5. 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)		780		Vacuum
Operating Temperature (°C)	65	70	75	
Threshold Current (mA)	0.4	0.6	0.8	
Output Power (mW)		0.1		@1.5mA
Wavelength Tuning Over Temperature (nm/°C)	0.05	0.06	0.07	
Side Mode Suppression (dB)		25	35	
Polarization Extinction Ratio (dB)		12		
Beam Divergence (° )		10		1/e <sup>2</sup>
Spectral Bandwidth (MHz)		100		
<b>Thermal Parameters</b>				
Storage Temperature Range (°C)	25		125	
<b>Package</b>				
Package Type	Bare Chip			

**Pictures:**

