

795nm Single Mode VCSEL Bare Chips

(Part Number: VCSEL-795-0.1mW-SM-BC-G5)

Applications:

- 1. Rb Chip Scale Atomic Clock (CSAC);**

Features:

- 1. Circular beam spot and low divergence angle;**
- 2. Single-transverse-mode and linear polarization;**
- 3. Narrow linewidth (spectral width)**
- 4. High operating temperature ($>85^{\circ}\text{C}$).**

Specification:

ELECTRO-OPTICAL CHARACTERISTICS				
PARAMETER	MIN	TYP	MAX	TEST CONITIONS
Emission Wavelength (nm)		794.98		Vaccum
Operating Temperature (°C)	85	90	95	
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 ²
Spectral Bandwidth (MHz)	40	60	80	
Thermal Parameters				
Storage Temperature Range (°C)	25		125	
Package				
Package Type	Bare Chips			

Pictures:

