

## **795nm Single Mode VCSEL in TO Can**

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

### **Applications:**

- 1. Rb Atomic clock;**

### **Features:**

- 1. Circular beam spot and low divergence angle;**
- 2. Single-transverse-mode and linear polarization;**
- 3. Narrow linewidth (spectral width)**
- 4. Operating temperature:  $90\pm 5^{\circ}\text{C}$**
- 5. Packaged in TO46/TO39 with 2pin/3pin**

**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		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 <sup>2</sup>
Spectral Bandwidth (MHz)	40	60	80	
<b>Thermal Parameters</b>				
Storage Temperature Range (°C)	25		125	
<b>Package</b>				
Package Type	TO46/TO39 2pin/3pin			

**Pictures:**

