

## **795nm Single Mode Non-Magnetic VCSEL Module**

**(Part Number: VCSEL-795-1mW-SM-NM-G1)**

### **Applications:**

- 1. Rb Magnetometer;**
- 2. Quantum sensing.**

### **Features:**

- 1. Circular beam spot and low divergence angle;**
- 2. Single-transverse-mode and linear polarization;**
- 3. Narrow linewidth (spectral width);**
- 4. Non-Magnetic material employed;**
- 5. High single mode power, up to 1.5mW.**

## 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)	0.4	0.6	0.8	
Output Power (mW)		1	1.5	@3.5mA
Wavelength Tuning Over Temperature (nm/°C)	0.05	0.06	0.07	
Side Mode Suppression (dB)	20	25	30	
Polarization Extinction Ratio (dB)		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	TO			

**Pictures:**



