

895nm High Power Single Mode VCSEL Bare Chips

(Part Number: VCSEL-895-1mW-SM-BC-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. High single mode power (1mW) ;
4. Operating temperature $50 \pm 5^{\circ}\text{C}$.

Specification:

ELECTRO-OPTICAL CHARACTERISTICS				
PARAMETER	MIN	TYP	MAX	TEST CONITIONS
Emission Wavelength (nm)		894.6		Vacuum
Operating Temperature (°C)	45	50	55	
Threshold Current (mA)	0.4	0.6	0.8	
Output Power (mW)		1		@3mA
Wavelength Tuning Over Temperature (nm/°C)	0.05	0.06	0.07	
Side Mode Suppression (dB)		25	35	
Polarization Extinction Ratio (dB)		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 Chip			

Pictures:

