

## “NEOARK” Diode Laser

### Rubidium Wavelength Stabilized Laser, Model LDS-RB<sub>3</sub>

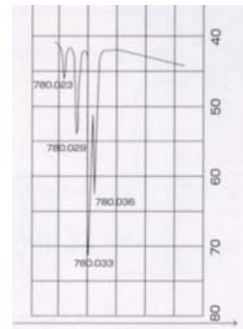
LDS-RB3 is compact and light weight laser comparing with HeNe laser, and it's wavelength stability is nearly equal to HeNe laser.

After a certain portion of LD output beam is taken by beam splitter, it passes through Rb cell, then is received by photo detector. Electric signal (which is photo-converted by detector) is transmitted to LD wavelength controller, so that wavelength is stabilized.

#### LDS-RB<sub>3</sub>



#### Absorption Line of Rb



Wavelength (nm)

| LDS-RB <sub>3</sub>  |                                      |
|----------------------|--------------------------------------|
| Wavelength           | 780nm                                |
| Wavelength stability | $5 \times 10^{-6}$                   |
| Wavelength reference | Rubidium (Rb) Atomic absorption line |
| Output               | 0.5mW                                |
| Modulation width     | About 500MHz                         |
| Photo detector       | Si Photodiode                        |



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