



## LASER DIODES BUILT ON WORLD CLASS TECHNOLOGY & EXPERTISE FOR OVER A DECADE

### EP1742-2-DM SERIES - HCI SENSING

Eblana's EP1742-2-DM series is designed for Hydrogen Chloride detection using the 1742 nm absorption line.

This laser is built on Eblana's Discrete Mode technology platform and delivers stable, precise lasing performance at 1742 nm for a wide range of hydrogen chloride detection applications.

Packaging options: 14-Pin Butterfly (w/ iso), TO39 (w/ TEC), TO56, DX-1 Module (driver & TEC electronics)

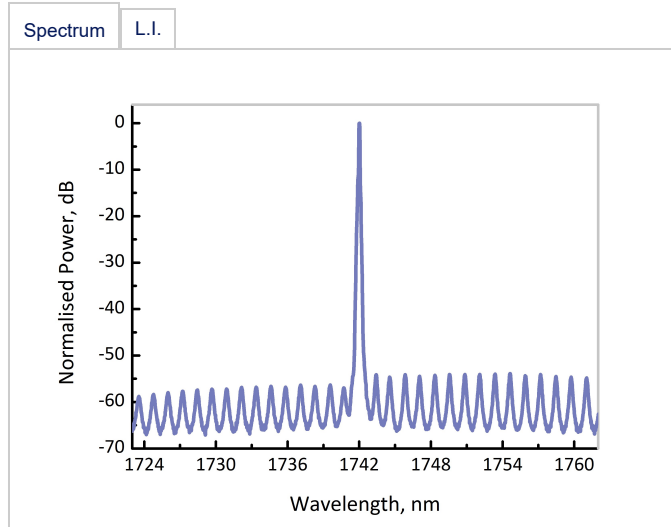
Popular wavelengths in this region: 1735 nm, 1742 nm

Precise, stable spectral performance

Monolithic design without external cavity

Tunable by either temperature or current

Low sensitivity to mechanical vibration



### KEY PARAMETERS

The EP1742-2-DM product series delivers precise lasing emission at 1742.2 nm in a range of packaging options.

$\lambda = 1742 \text{ nm}$

$\lambda$  Tuning = 2 nm (typ)

SMSR = 40 dB (typ)

Optical Isolation > 40 dB

Power in fiber = 5 mW

Linewidth < 2 MHz

### CONTACT US FOR THE FULL DATASHEET

Name

Company

Email

Datasheet

Please enter any additional information that you can to help facilitate a detailed response.

Note: Your data will not be shared

### RELATED PRODUCTS

#### DM

- |            |                          |             |                          |             |                          |             |                          |             |                          |
|------------|--------------------------|-------------|--------------------------|-------------|--------------------------|-------------|--------------------------|-------------|--------------------------|
| EP689-0-DM | <a href="#">[ View ]</a> | EP1278-1-DM | <a href="#">[ View ]</a> | EP1653-7-DM | <a href="#">[ View ]</a> | EP1877-0-DM | <a href="#">[ View ]</a> | EP2051-0-DM | <a href="#">[ View ]</a> |
| EP760-0-DM | <a href="#">[ View ]</a> | EP1392-5-DM | <a href="#">[ View ]</a> | EP1692-0-DM | <a href="#">[ View ]</a> | EP1950-0-DM | <a href="#">[ View ]</a> | EP2108-0-DM | <a href="#">[ View ]</a> |
| EP780-0-DM | <a href="#">[ View ]</a> | EP1512-2-DM | <a href="#">[ View ]</a> | EP1742-2-DM | <a href="#">[ View ]</a> | EP2004-0-DM | <a href="#">[ View ]</a> | EP2330-0-DM | <a href="#">[ View ]</a> |

### Why Choose Eblana

- Delivering high performance lasers for over a decade. Single Mode Laser Diodes from 689 to 2350 nm.
- Discrete Mode (DM) technology enables new & exciting mass market applications.
- Expertise always on hand to assist in custom laser design.

### Download Photonics Resources

- DM Lasers @ 780 nm for Rb Atomic Clocks
- Wide temp range NLW DM laser for Coherent Comms
- 0 < T < 85 °C NLW DM Laser Diodes for Coherent Comms
- Discrete Mode laser diodes with ultra-narrow linewidth emission

### Speak to Our Experts

Call us today on

**+353 1 675 3220**

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#### EBLANA'S CONFERENCES & EXPOS



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