



DOWNLOAD FREE WHITE PAPERS & APPLICATION NOTES



Photodigm HOT™ DBR Lasers

The Photodigm family of high-power edge-emitting Distributed Bragg Reflector (DBR) laser diodes is based on Photodigm's proprietary single epi growth DBR laser architecture. Since their introduction over 10 years ago, Photodigm DBR lasers have opened up opportunities for an emerging class of quantum-enabled sensing and metrology (QSM) instruments. Meeting the demand for mobile applications requires special attention to the size and power requirements of the product. Photodigm's latest innovation is the HOT™ (High Operating Temperature) DBR, which reduces power consumption by operating at an elevated temperature so that only resistive heating be used to maintain lock to a spectroscopic transition. The HOT device eliminates the need for a thermoelectric cooler by relying on a combination of laser self-heating and resistive heating to maintain a stable operating point. Laser self-heating alone can be used to maintain a stable wavelength alone about 15 to 20C° above ambient.

[DOWNLOAD NOW](#)

Sponsored by

More White Papers from this Sponsor

- X-Mode™ DBRs Enable Extended Tuning Range
- Space-Certified DBR™ Lasers for Mission Critical Applications
- DBR vs DFB



Visit Photonics Media to download other white papers and learn more about the latest developments in lasers, imaging, optics, biophotonics, machine vision, spectroscopy, microscopy, photovoltaics and more.

www.photonics.com/WhitePapers.aspx

We respect your time and privacy. You are receiving this email because you are a Photonics Media subscriber, and/or a member of our website, Photonics.com. You may use the links below to manage your subscriptions or contact us.

Questions: info@photonics.com

[Unsubscribe](#) | [Subscribe](#) | [Subscriptions](#) | [Privacy Policy](#) | [Terms and Conditions of Use](#)

Photonics Media, 100 West St., PO Box 4949, Pittsfield, MA 01202-4949

© 1996 - 2020 Laurin Publishing. All rights reserved. Photonics.com is Registered with the U.S. Patent & Trademark Office. Reproduction in whole or in part without permission is prohibited.