

# **TUNABLE SEMICONDUCTOR LASERS FOR WDM TELECOMMUNICATIONS**

D. A. Ackerman, J. E. Johnson, L. J-P. Ketelsen, J. M. Geary<sup>†</sup>, W. A. Asous<sup>†</sup>, F. S. Walters<sup>†</sup>, J. M. Freund<sup>†</sup>, M. S. Hybertsen, K. G. Glogovsky<sup>†</sup>, C. W. Lentz<sup>†</sup>, C. L. Reynolds<sup>†</sup>, R. B. Bylsma<sup>†</sup>, E. J. Dean<sup>†</sup> and T. L. Koch<sup>†</sup>

*Agere Systems, 600 Mountain Avenue, Murray Hill, NJ 07974 USA*

*<sup>†</sup>9999 Hamilton Blvd., Breinigsville, PA 18031 USA*

Wavelength selectable semiconductor lasers serve as tunable light sources in wavelength division multiplexed telecommunication systems. We report on 2.5 and 10Gb/s electro-absorption modulated wavelength selectable laser modules based on highly reliable, closed-loop controlled, five-section InP wavelength selectable lasers.