

13th Feb
2017

Press Release PR01480



LASER COMPONENTS Introduces the New MBC-DG-LAB

LASER COMPONENTS introduces the new iXBlue MBC-DG-LAB automatic bias controllers to lock the operating point of LiNbO₃ Mach-Zehnder modulators and to ensure a stable operation over time and environmental conditions.

The MBC-DG-LAB controllers are dither signal based, so superimpose a low amplitude, low frequency, tone on the modulation signal. The resulting optical modulation is then detected and a digital signal processing technique, based on a FFT analysis principle, allows the operating point to be locked at the desired position. The controllers are continuously tuneable, allowing operation of the modulator at any point of its transfer function, so can be used for a large variety of applications.

The new MBC-DG-LAB controllers have improved sensitivity and stability. The new controller is also easier to use, introducing an AUTOSET operation for the QUAD/MIN/MAX modes, a Graphical User Interface (GUI), storage and recovery of the user parameters and USB communication.

The bias controllers are available as bench top instruments and OEM boards. iXBlue MBC-DG series controllers are especially well suited for digital and pulse applications. A ditherless version (MBC-AN) is also available. These controllers do not superimpose a tone signal on the optical modulated signal and are typically used for analogue applications.

More Information

<http://www.lasercomponents.com/uk/product/fiber-optical-modulators/>

Trade Shows

Photonex Scotland Roadshow, June 14, 2017, University of Strathclyde, Booth S2
Photonex, October 11 - 12, 2017, Ricoh Arena, Coventry, Booth D15

The Company

LASER COMPONENTS specializes in the development, manufacture, and sale of components and services in the laser and optoelectronics industry. At LASER COMPONENTS, we have been serving customers since 1982 with sales branches in five different countries. We have been producing in house since 1986 with production facilities in Germany, Canada, and the United States. In-house production makes up approximately half of our sales revenue. A family-run business, we have more than 200 employees worldwide.