BCB-4



DEVICE Modulator Bias Control Board, Four Bias Mode

The Optilab BCB-4 is a compact bias control board designed to maintain the linear operating point of optical intensity modulators. Featuring a compact miniature design for OEM integration, the BCB-4 allows for a stable Q+, Q-, Min and Max operation over long periods of time. With a single +5V DC power and RS485 multi-addressing control and monitor interface, the BCB-4 unit is the ideal choice for industrial and OEM applications when paired with any of Optilab's wide variety of optical modulators, contact Optilab for more information.

FEATURES

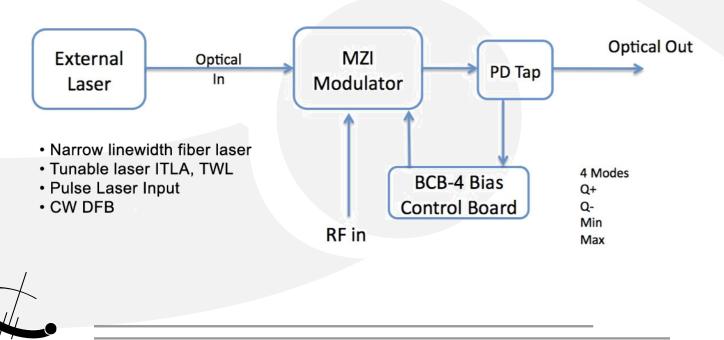
OVERVIEW

- Q+, Q-, Min., Max. bias setting modes
 On-Board Photodiode
 - RS-485 Control
 - Single +5V DC Power

- USE IN
- RF/IF Signal Distribution
- Satellite Communication
 Optical Communications
- Optical Communications
- Bandwidth RFoF Transmission
- Picosecond Pulse Generation
- High Bandwidth RFoF Transmission
- Pulse picking/gating

FUNCTIONAL DIAGRAM

ptilob



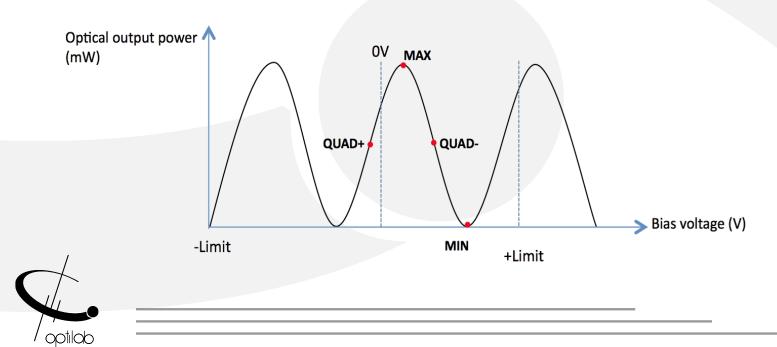


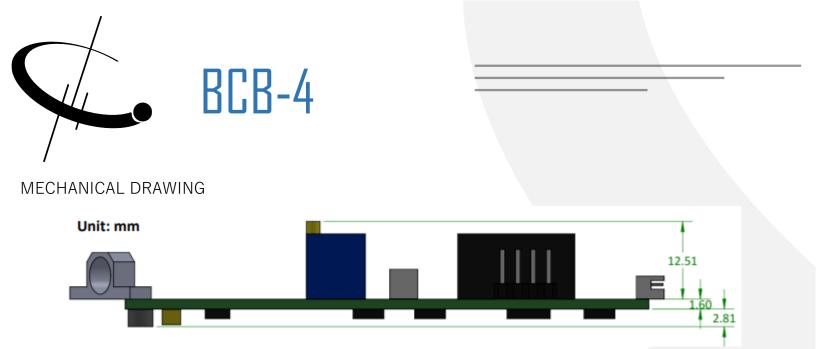
BIAS CONTROL MODE

BCB-4

SPECIFICATIONS	Modulator Type	Mach Zehnder Interferometer
	Bias Control Principle	Small Signal Dithering/Phase lock loop
	Dither Frequency	1 kHz
GENERAL	Dither Amplitude	20 to 300 mVpp adjustable
	Feedback Optical Power @ MAX	-20 to -5 dBm
	Bias Output Voltage	± 10 V
	Modulator Voltage V _{PI} Range	3 -8 V
	Operating Temperature	-10°C to +60°C
MECHANICAL	Storage Temperature	-60°C to +90°C
	Power Supply Requirements	5 V, 100 mA typ.
	Control Interface	RS-485
	Alarm	LED DC Power status
	Dimensions	132 mm x 26 mm x 8 mm

Mode	Operation Conditions	Modulation Format
Q+	Set to quadrature point of positive slope	Analog, NRZ
Q-	Set to quadrature point of negative slope	Analog, NRZ
Min.	Set to min. point of modulator curve	Pulse, RZ, BPSK
Мах.	Set to max. point of modulator curve	Pulse, RZ





CONTROL AND PINOUT

