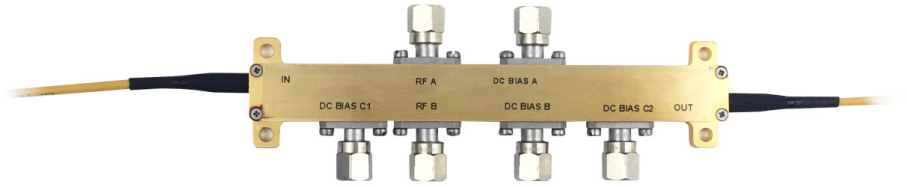
DQPSK-OM-12



DQPSK Optical Modulator, 2 x 12 Gb/s

The Optilab Dual Quadrature Phase Shift Keying (DQPSK) modulator design is based on a dual parallel structure of two Mach-Zehnder modulators embedded in a Mach-Zehnder super-structure. Each internal modulator is designed to support 12 Gb/s signals. An integrated polarizer enables high extinction ratios as required for the DQPSK modulation format. Contact Optilab for more information.

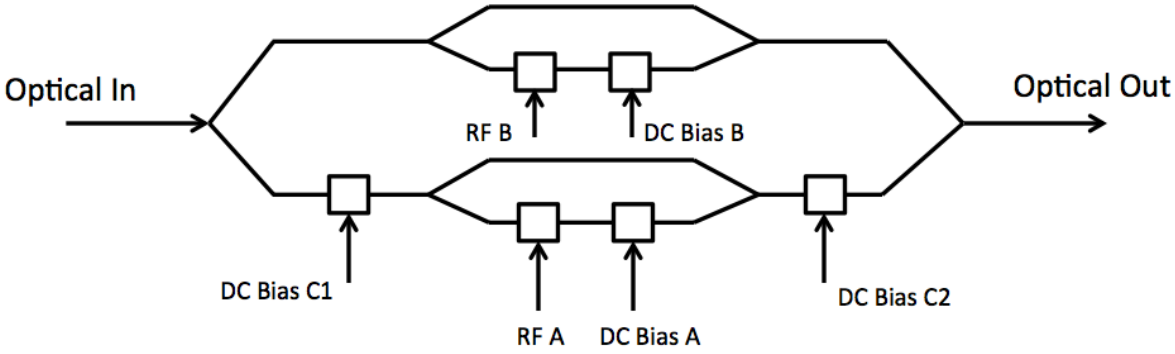
Features

- Dual MZI parallel with two RF input
- 12 Gb/s bandwidth
- 4 DC bias ports
- Low insertion loss of 5 dB
- Extinction ratio > 25 dB

Applications

- DQPSK transmission
- BPSK, DPSK modulation
- 2 x12 Gb/s link
- Research and Development
- Free space communication

Functional Diagram



DQPSK Optical Modulator, 2 x 12 Gb/s

OPTIONS

DQPSK-OM-12

TECHNICAL INFO

For technical info and support:

sales@optilab.com

www.optilab.com

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Optilab Advantage

- Innovation
- Performance
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General Specifications	
Laser WL	1554 nm
Bias A Vpi	3.3
Bias B Vpi	3.2
RF A On/off	27 dB
RF B On/off	27 dB
C On/Off	27 dB
C1 Vpi	7.2 V
C2 Vpi	7.0 V
Loss Imbalance A-B	-0.1 dB
S11 A Max 1 GHz -4 GHz	-11 dB
S11 A Max 4 GHz -5 GHz	-13.1 dB
S11 A Max 5 GHz -8 GHz	-16.5 dB
S11 B Max 1 GHz -4 GHz	-11.2 dB
S11 B Max 4 GHz -5 GHz	-13.8 dB
S11 B Max 5 GHz -8 GHz	-17.4 dB
S11 Complex Diff	0.035 Max.
RF S21 Roll Off A 1-8 GHz	-4.4 dB
RF S21 Roll Off B 1-8 GHz	-4.5 dB
Output PER	25
Ppi A @ 1 GHz	21.3
Ppi B @ 1 GHz	21.3
Balance FOM	-0.12
Modulator FOM	30.91
Loss	5.2 dB