

About Plugtech

Plugtech Precision Systems Limited specializes in the development of advanced optical modulator bias controllers and customized optical modulation modules. Our patented controllers support bulk LiNbO₃ and TFLN MZ, QPSK, and DP-QPSK modulators, with both Electro-Optic (EO) and Thermo-Optic (TO) solutions available. All products are compact, user-friendly, and provide automatic bias stabilization without manual calibration.

Contact

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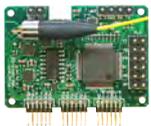
 Coin Size* |  True Automatic |  Fast and Stable

Products

MBC Series (Electro-Optic (EO) Modulator Bias Controller)

- EO Dual Polarization IQ Bias Controller (MBC-DPIQ-02)
- EO Single Polarization IQ Bias Controller (MBC-IQ-03)
- EO MZ Modulator Arbitrary Point Bias Controller (MBC-MZM-05)
- EO MZ Modulator Q Point Ditherless Bias Controller (MBC-HF-01)
- EO MZ Modulator Null Point Bias Controller (MBC-NULL-06)
- EO MZ Modulator Q Point Bias Controller (MBC-Q-06)

MBC-DPIQ



MBC-IQ



MBC-MZM



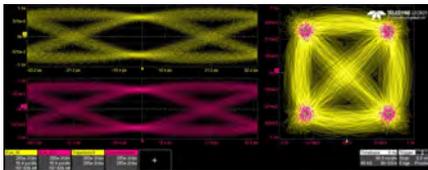
MBC-HF



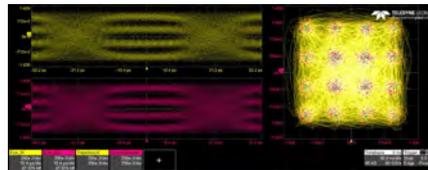
MBC-NULL



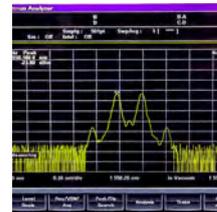
MBC-Q



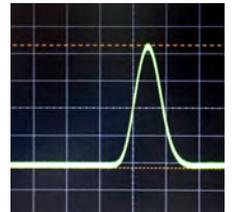
QPSK Experiment Result



16-QAM Experiment Result



DSB Carrier Suppression



Pulse Generation

TFLN Series (Thermo-optic (TO) Modulator Bias Controller)

- TO MZ Modulator Quad Point Bias Controller (TFLN-QUAD-01)
- TO MZ Modulator Null Point Bias Controller (TFLN-NULL-01)
- TO Single Polarization IQ Bias Controller (TFLN-IQ-01)
- TO Dual Polarization IQ Bias Controller (TFLN-DPIQ-01)

TFLN-QUAD



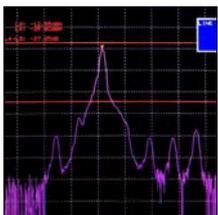
TFLN-NULL



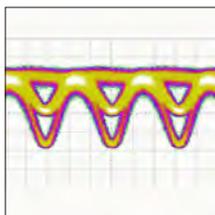
TFLN-IQ



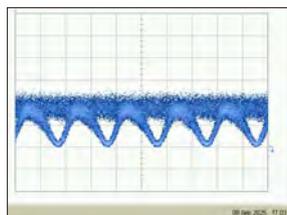
TFLN-DPIQ



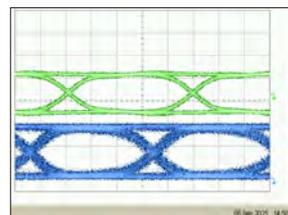
SSB Carrier Suppression



QPSK Eye Diagram



TFLN_NULL_BPSK_Modulation



TFLN_QUAD_NRZ_Modulation (Green-Electric Signal Source, Blue-Modulator Output)



*Standard Size 30mm*40mm, TFLN mini version 55mm*18mm available