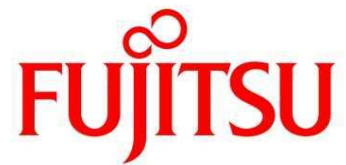


Low Drive Voltage 40Gbps LN Modulator



General Descriptions

- 40Gbps Mach-Zehnder modulator using Ti-diffused LiNbO₃ waveguide technology
- Low drive voltage:
 - Max. 1.8V at 43 Gbps in dual drive [FTM7937EZ]
 - Max. 3.5V at 43 Gbps in single drive (0 chirp) [FTM7938EZ]
- Separated DC bias port
- Built-in monitor PD for auto bias control
- RoHS compliant
- Applications:
 - 40Gbps DWDM optical transmission systems (NRZ, DPSK, Optical Duo-binary)
 - Measurement equipment for high speed telecommunications

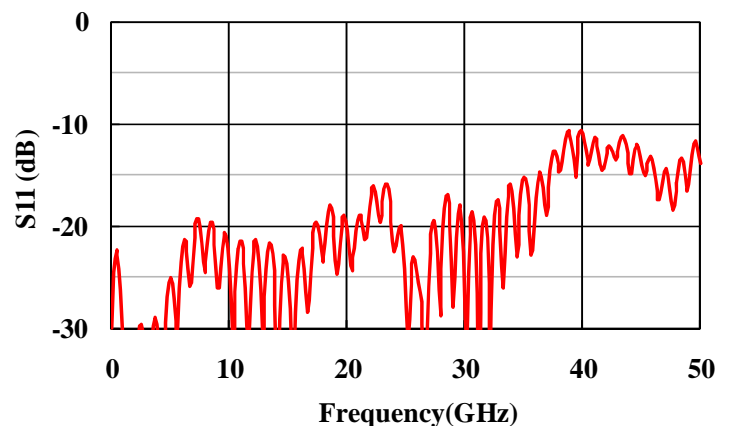
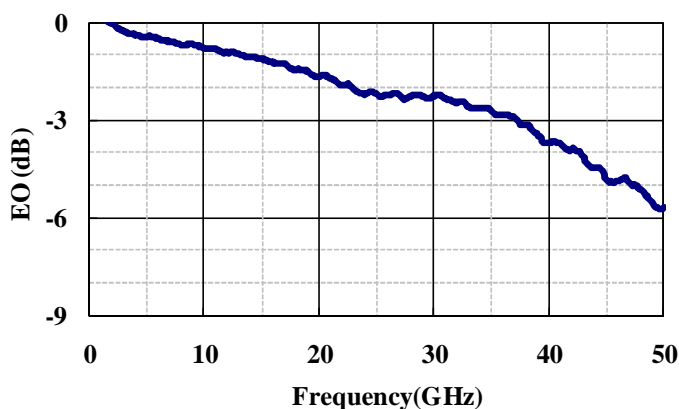


Specifications

Part Number	FTM7937EZ	FTM7938EZ
Modulation Format	NRZ/ODB (*1) /DPSK	NRZ/ODB (*1) /DPSK
Optical Bandwidth (-3dB)	≥ 25 GHz	≥ 25 GHz
Operating Wavelength	1530 to 1610 nm	1530 to 1610 nm
Driving Voltage (V π) @40Gbps	≤ 1.8 V (*2), ≤ 3.5 V (*3)	≤ 3.5 V (*3)
Extinction Ratio at Low Frequency	≥ 20 dB	≥ 20 dB
Insertion Loss	≤ 10 dB	≤ 8 dB
α Parameter (Typ.)	0 (*2), +/-1.0 (*3)	0 (*3)
RF impedance (Typ.)	50 ohm	50 ohm
Monitor PD Responsivity	≥ 0.001 A/W	≥ 0.001 A/W
Operating Case Temperature	-5 to 75 °C	-5 to 75 °C
Package Size (L x W x H)	89.8 x 13.2 x 9.5 mm 3.54 x 0.52 x 0.37 inches	89.8 x 13.2 x 9.5 mm 3.54 x 0.52 x 0.37 inches

*1: ODB=Optical Duo-Binary *2: Dual Drive *3: Single Drive

RF Performance



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Specifications are subject to change without prior notice.