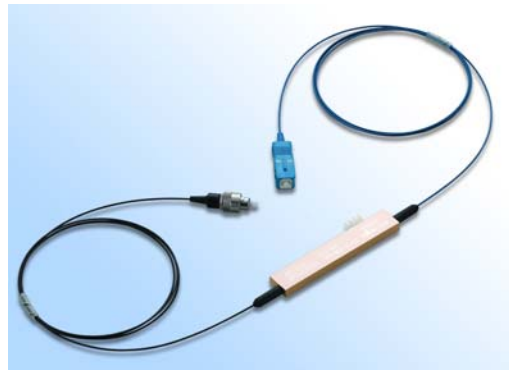


Single Drive 12Gb/s LiNbO₃ External Modulator

Description

- Two products for single drive, chirp=0 and +/-0.7 (Z-cut)
- Low Driving voltage: $\leq 5V$ for RF
- Small size; 65mm x 11.4mm x 4.9mm
(The common package for both chirp 0 and +/-0.7)
- Integrating electrical function (Monitor PD, Bias Tee)
- Built-in a monitor PD for auto bias control
- Stable operation in long term for low DC drift
- Applications:
 - Optical transponder module
 - DWDM optical transmission equipment (2.4Gb/s, 10Gb/s)
 - Measurement equipment for high speed telecommunications

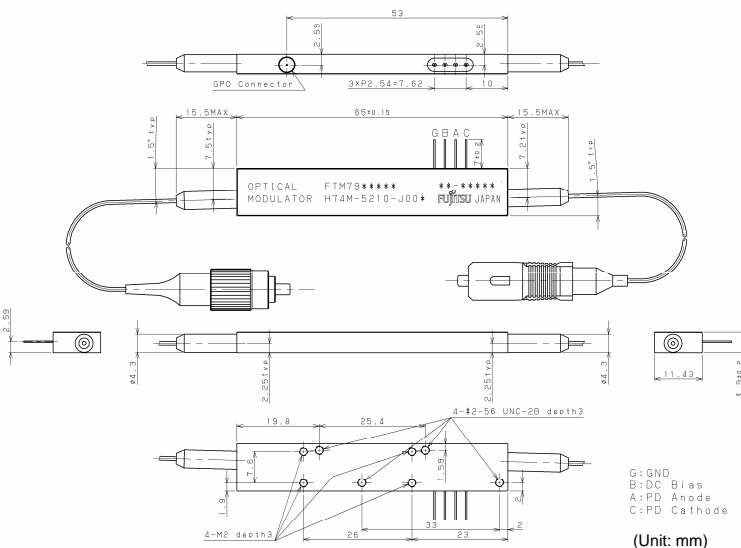


Specifications

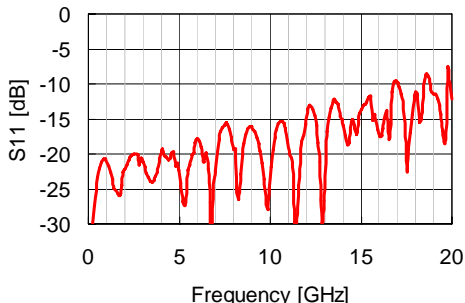
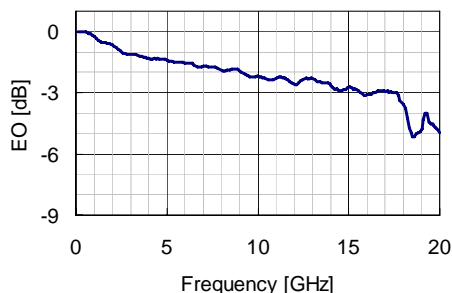
| Part Number | | FTM7926FB | FTM7924FB |
|----------------------------|--------|--|-----------|
| Optical Bandwidth (-3dB) | | $\geq 10\text{GHz}$ | |
| Operating Wavelength | | 1530 to 1610nm | |
| Driving Voltage (Vp)*1 | | $\leq 5.0V$ | |
| Extinction Ratio *2 | | $\geq 20\text{dB}$ | |
| Insertion Loss | C band | $\leq 5.0\text{dB}$ | |
| | L band | $\leq 5.5\text{dB}$ | |
| α Parameter (Typ.) | | 0 | +/-0.7 |
| Monitor PD Responsivity | | $\geq 0.001\text{A/W}$ | |
| Operating Case Temperature | | -5 to 75°C | |
| Package Size (LxWxH) | | 65 x 11.4 x 4.9 mm 2.6 x 0.45 x 0.19 inches | |

*1: at 12.5Gb/s for Bit Rate, *2: at low Frequency

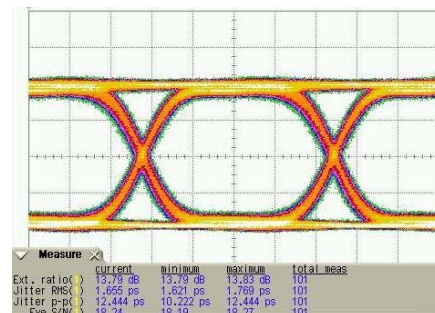
Drawing



RF performance (for 0-Chirp)



Waveform (for 0-chirp)



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