

# Single Drive 12Gbps LiNbO<sub>3</sub> External Modulator

## Description

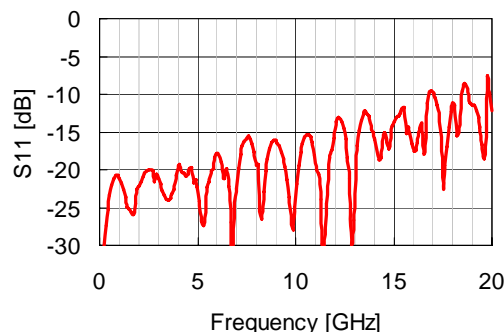
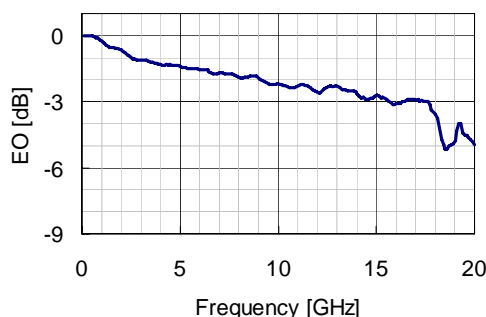
- Two products for single drive, chirp=0 and  $\pm 0.7$  (Z-cut)
- Low driving voltage:  $\leq 5V$  for RF
- Small size; 65mm x 11.4mm x 4.9mm  
(The common package for both chirp 0 and  $\pm 0.7$ )
- Integrating electrical function (Monitor PD, Bias Tee)
- Built-in a monitor PD for auto bias control
- Stable operation in long term for low DC drift
- RoHS compliant
- Applications:
  - Optical transponder module
  - DWDM optical transmission equipment (2.5Gbps,10Gbps)
  - Measurement equipment for high speed telecommunications



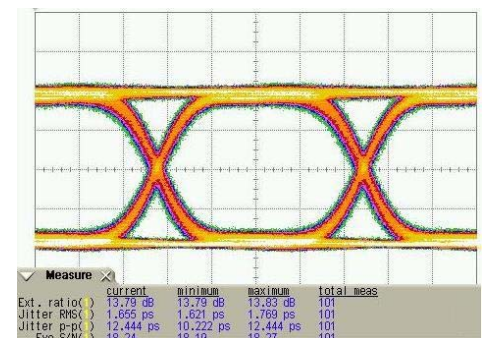
## Specifications

Part Number		FTM7926FB	FTM7924FB
Optical Bandwidth (-3dB)		$\geq 10$ GHz	
Operating Wavelength		1530 to 1610 nm	
Driving Voltage ( $V_{\pi}$ ) at 12.5G		$\leq 5.0$ V	
Extinction Ratio at Low Frequency		$\geq 20$ dB	
Insertion Loss	C band	$\leq 5.0$ dB	
	L band	$\leq 5.5$ dB	
$\alpha$ Parameter (Typ.)		0	$\pm 0.7$
Monitor PD Responsivity		$\geq 0.001$ A/W	
Operating Case Temperature		-5 to 75 °C	
Package Size (L x W x H)		65 x 11.4 x 4.9 mm / 2.56 x 0.45 x 0.19 inches	

## RF performance (for 0-Chirp)



## Waveform (for 0-chirp)



## Fujitsu Limited

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