

DP-BPSK 40Gbps LN Modulator

General Description

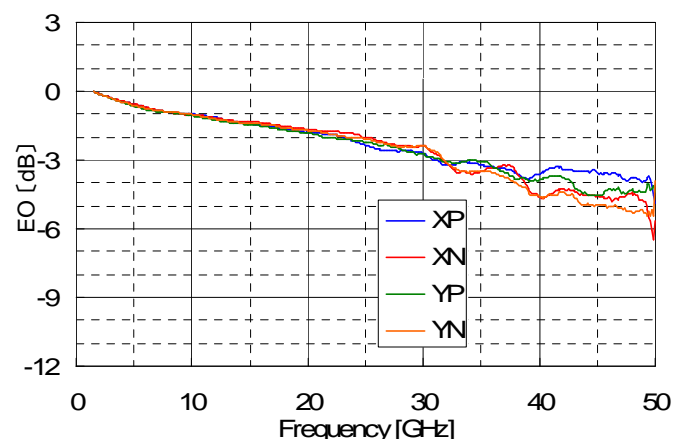
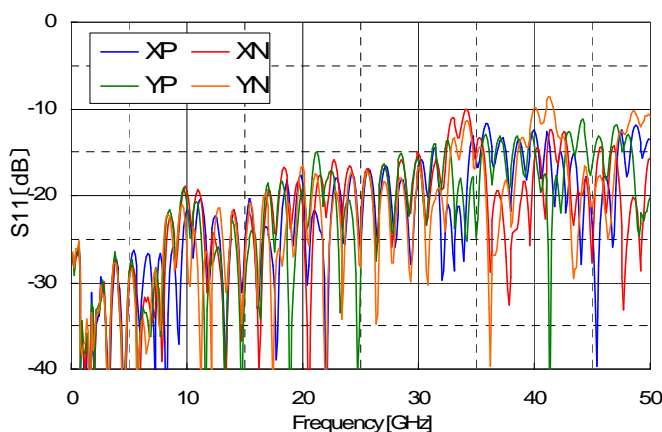
- 43Gbps (21.5Gbaud) Mach-Zehnder modulator for “DP-BPSK” transmission format
- 2 PSK modulators and Polarization Beam Combiner are integrated in one package.
- RF interface: GPPO dual drive
- Low drive voltage: < 3.5V ($2V\pi$)
- Built-in monitor photo diodes for each polarization.
- RoHS compliant



Specifications

Part number	FTM7980EDA				
Parameter	Condition	Spec.		Unit	
		Min	Max		
Operating Temperature	Case Temperature	-5	75	degC	
Operating Wavelength		1528	1612	nm	
RF Drive Voltage (Differential Drive)	2 x Vpi @21.5Gbaud	-	3.5	Vpp	
Electrical band width of EO transfer function (S21)	3dB down relative to 1.5GHz	20	-	GHz	
Insertion Loss	With maximum transmission at for each polarization, No connector	C-band	-	14.5	dB
		L-band	-	15.0	dB
Polarization Dependent Loss	Loss (X) – Loss(Y) @ C-band	0.6(Typ.)		dB	
Relative EO skew	X vs Y	-8.2	+1.8	ps	
DC Extinction Ratio	Low frequency	20	-	dB	
Chirp Parameter	Balanced Input	-0.2	0.2	-	
Package Size (L x W x H)	82.5 x 13.2 x 7.0 mm / 3.25 x 0.52 x 0.27 inches				

RF performance



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Specifications are subject to change without prior notice.