

DP-QPSK 40Gbps LN Modulator

General Description

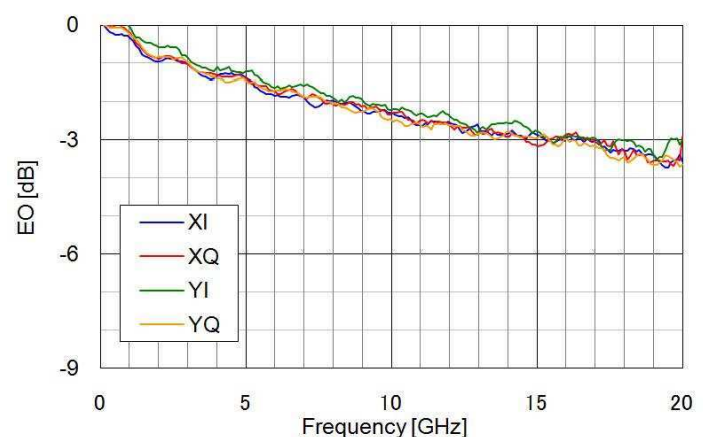
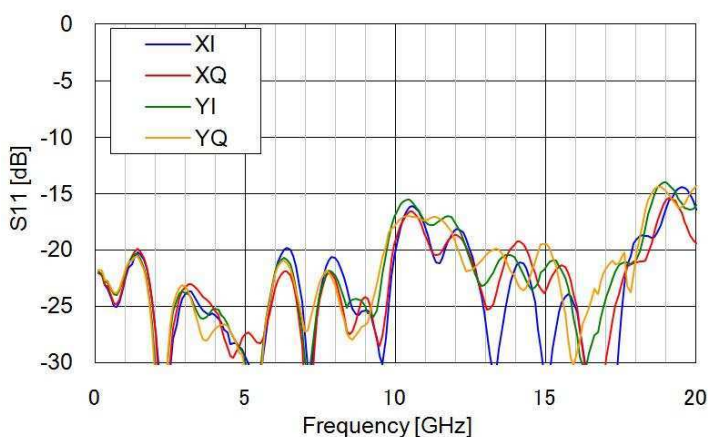
- 40Gbps (10Gbaud) Mach-Zehnder modulator for “DP-QPSK” transmission format
- 2 QPSK modulators and Polarization Beam Combiner are integrated in one Package
- RF interface: GPPO single ended
- Low drive voltage: < 8V ($2V\pi$)
- Built-in monitor photo diodes for each polarization.
- RoHS Compliant



Specifications

Part Number	FTM7967EQA				
	Parameter	Condition	Target spec		Unit
			Min	Max	
Operating Temperature	Case Temperature	-5	75	degC	
RF Drive Voltage	2 x V_{π} @ 10.75Gbaud	-	8	Vpp	
Electrical band width of EO transfer function (S21)	3dB down relative to 130MHz	10	-	GHz	
Insertion Loss	With maximum transmission at C-band for each polarization	-	12.5	dB	
Polarization Dependent Loss	Loss (X) – Loss(Y) @ C-band	0.6(Typ.)		dB	
Relative EO skew	X vs Y	-10	0	ps	
DC Extinction Ratio for Parent MZI	Low frequency	22	-	dB	
DC Extinction Ratio for Child MZI	Low frequency	20	-	dB	
Chirp parameter for Child MZI	-	-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.