

40+ Gb/s Modulators

Low-loss and wideband intensity modulators for OC-768 applications



Key Specifications

	Z-Cut Fixed pre-chirp	X-Cut Zero-chirp
Insertion Loss	< 4 dB (<3 opt)	< 5 dB (<4 opt)
3 dB Bandwidth	> 30 GHz	> 25 GHz
Modulation Port Vpi (@ 1 GHz)	< 4.0 volts (< 3.5 V opt)	< 5.0 volts (< 4.0 V opt)
DC Bias Port Vpi (on a separate electrode)	< 10 volts	
S11 (0.13 to 25 GHz)	< -10 dB	
Optical Null Depth (@ DC)	> 20 dB	
Optical Return Loss	> 50 dB	
Alpha Chirp Factor	-0.7 ± 0.1	0.0 ± 0.1
Package Dimensions	3.48" x 0.35" x 0.35" (88.4 x 8.9 x 8.9 mm ³)	
RF Connector	female V	
Operating Wavelength	1.55 microns (C- and L-Band) (0.8, 1.06, 1.3 microns available)	
Input Fiber	PM	
Output Fiber	SM or PM	
Optical Connectors	FC/PC standard (FC/APC & others available)	
Options	Ultra-low insertion loss Dual-wavelength operation (1.3/1.55) Integrated monitor photodiode Integrated polarizer External RF termination port Integrated phase modulator Dual complementary outputs (1x2, 2x2) Custom alpha chirp factors	