

## Low-loss and wideband intensity modulators for short-wavelength applications

### Key Specifications

	Intensity Modulators	High Extinction Ratio Intensity Modulators
Insertion Loss	< 4 dB (<3 opt, <2 dB available)	
Data Rate	10, 20, 40 Gb/s	
Modulation Port Vpi (@ 1 GHz)	< 4 volts (<3 volts opt)	
DC Bias Port Vpi	< 10 volts	
S11	< -10 dB	
Optical Null Depth (@ DC)	> 18 dB	>30 dB(>40 dB opt)
Optical Return Loss	> 50 dB	
Package Dimensions	3.48" x 0.35" x 0.35" (88.4 x 8.9 x 8.9 mm <sup>3</sup> )	
RF Connector	female K (<20 GHz), female V (20-40 GHz)	
Operating Wavelength	1.06 microns (0.7, 0.85, 0.98 available)	
Input Fiber	PM	
Output Fiber	SM or PM	
Optical Connectors	FC/UPC standard (FC/APC & others available)	
Options	Ultra-low insertion loss Integrated monitor photodiode Integrated polarizer Integrated phase modulator Dual complementary output	