

Polarization Controllers



A low-loss and high-speed multi-stage polarization controller useful for polarization control, polarization mode dispersion (PMD) compensation, and polarization scrambling.

Key Specifications

	3-Stage	4-Stage	6-Stage	8-Stage
Insertion Loss	< 3 dB (<2dB opt)			
3 dB Bandwidth	>1 MHz			
Number of Cascaded Stages (N)	3	4	6	8
$2V_{\pi}/N$ (TE/TM rotation, per stage)	< 14 volts			
V_{π}/N (TE/TM phase shift, per stage)	< 14 volts			
$ V_{\text{bias}}/2 $	< 30 volts			
PDL	< 0.2 dB			
Optical Return Loss	> 50 dB			
Operating Wavelength	1.55 micron (C- and L-band)			
Input Fiber	SM or PM			
Output Fiber	SM or PM			
Optical Connectors	FC/UPC standard (FC/APC & others available)			
Package Dimensions	4.0" x 0.35" x 0.24" (101.6 x 8.9 x 6.1 mm ³)			
Options	Lower PDL (< 0.1 dB) Custom number of stages Custom stage lengths 1.06 & 1.3 micron operating wavelength			