

Custom High-Speed Lithium Niobate Electro-optic Switches

$\lambda = 1550\text{nm}$; Please call for other λ : 2000+, 1700, 1300, 1060, 980, 850, 700nm

Ultra-High-Speed (sub-nanoseconds) 1x2, 2x2 Optical Switches/Modulators (wideband traveling-wave electrode structure with internal 50- Ω termination)



2.56" x 0.35" x 0.195" (65 x 8.9 x 4.95 mm³)

1x2, 2x1, 2x2 Ultra-high-speed Switch/Modulator

- Single polarization (SP), separate DC bias port
- >10GHz (>18GHz option), $T_{\text{switch}} \ll 100\text{ps}$, $V_{\pi} \sim 5\text{V}$
- Insertion loss < 4.0dB (< 3.0dB option)

Very-High Speed (<10 nanoseconds) 1xN, Nx1, NxN Optical Switches Single-Polarization (SP) or Polarization Independent (PI)

1x1, 1x2, 2x1, 2x2 Switches

Single Polarization (SP) version:

- Insertion Loss < 4.0 dB (< 2.5 dB option)
- Switching Voltage $\sim 5\text{V}$
- Crosstalk < -20 dB
- Capacitive electrode (C \sim 30pF), Switching Time < 10 ns.

Polarization Independent (PI) version:

- Insertion Loss < 4.0 dB, (< 2.5 dB option)
- Switching Voltage < 15V
- Crosstalk < -18 dB
- Capacitive electrode (C \sim 30pF), Switching Time < 10 ns.



1x8 (8x1) Switch-Array Module

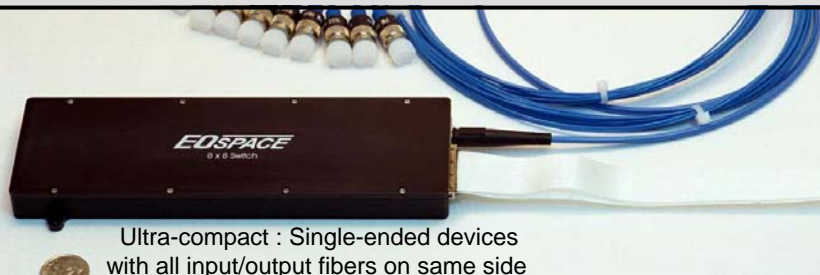
Single Polarization version:

- Insertion Loss < 5 dB, (< 3.5 dB option)
- Crosstalk < -20 dB
- Capacitive electrode (C<25pF), Switching Time < 10 ns.
- Polarization Independent version (please call)



Compact, High-speed 8x8 Switch-Array Module

- Strictly Non-Blocking
- Double-Stage Crosstalk-Suppression



Ultra-compact : Single-ended devices with all input/output fibers on same side

Custom: Large-scale Switch Module-examples

- Programmable, 4-bit (binary) Optic Time-Delay Switch Module



32-channel (8- λ , 4x4) Cross-Connect Switch

