

110 GHz Low $V\pi$ Electro-Optic Modulators

HyperLight's compact electro-optic modulators are the industry's first commercial-grade solution designed to provide operational bandwidths beyond 110 GHz at the package level. Our cutting-edge TFLN packaged electro-optic modulators boast operational bandwidths exceeding 110 GHz with exceptionally low $V\pi$ and insertion loss. With low $V\pi$, low insertion loss, and high optical power handling capability these devices are ideal for applications that require high electro-optic conversion efficiency.

Key Features:

- Ultra-High bandwidth modulation (>100 GHz bandwidth)
- Record low half-wave voltage
- Compact footprint
- High extinction ratio
- Stable DC biasing
- High optical and RF power handling
- Reliable material and operation
- W (1.0 mm) RF Connector, PM fibers with FC/APC connectors

Applications:

- Ultrawide band electro-optic conversion
- Reference transmitters for test and measurement
- Radio-over-fiber and satellite links
- Sensing and metrology
- Electro-optic frequency comb
- Mode-locking and laser frequency stabilization
- Research and Development



HYPERLIGHT