



*Guiding light toward
device development*

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Electro-Optic Modulators

High Power Fiber Coupled Optical Phase Modulators

AdvR has developed a phase modulator in a KTP waveguide to operate in wavelengths ranging from near-infrared to near-ultraviolet. The use of KTP waveguides enables modulators with high power handling and low V_{π} . Performance has been optimized in single mode 780nm phase modulators, but contact AdvR to discuss custom configurations to meet your application's needs.

[View AdvR's Article on High Power Fiber Coupled Phase Modulators in the July 2016 issue of Laser Focus World.](#)

780nm Phase Modulator



KTP Waveguide-Based Proprietary Design

Operating Wavelength	780nm \pm 20nm
Optical Input Power	300 mW
Low V_{π}	6 V
3dB Bandwidth	6 GHz
Insertion Loss	< 5 dB
Fiber	PM 250 μ m buffered fiber
Optical Connectors	FC/APC

Applications: Rubidium Atomic Sensing

Custom Wavelength Phase Modulators

Example Modulator Wavelengths

Wavelength	Reference Atom
397	calcium
423	calcium
556	ytterbium

657	calcium
671	lithium
707	strontium
852	cesium

AdvR is able to produce phase modulators at customer specified wavelengths from the near-ultraviolet into the near-infrared. These custom phase modulators are produced with similar specifications as the 780nm phase modulator with some variation in maximum power, V_{π} , and insertion loss depending on the wavelength. Currently these modulators are spec'd for multimode operation with temperature control to ensure performance stability.

For information regarding AdvR's modulation technology, please [contact us](#).

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