

ConOptics Phase Modulators

The standard modulators 350, 360, 370, 380 and 390 series are built as intensity modulators with a polarizer aligned to the crystal axis. The same modulators can also be configured for use as polarization rotators, voltage variable wave plates or phase modulators. However, when used as phase modulator only half the cell is active, so the half wave voltage is twice as high as compared to the standard use.

All of our modulators can be constructed with all the crystals inline such that the full cell is active as a phase modulator, but in this configuration it cannot be used as an intensity modulator, polarization rotator or variable wave plate. Once the modulator is built as a phase modulator it cannot be re-configured as an intensity modulator.

KD*P Series	Phase Sensitivity mrad/volt @ 500nm	V for ½ Wave Phase Modulator
350-50LA	3.85	815
350-50	7	450
350-80	12	261
350-105	14.7	225
350-160	24	130
350-210	29	113
ADP Series	Phase Sensitivity mrad/volt @ 500nm	V for ½ Wave Phase Modulator
370LA	12	262
370	17	184
380	34	90
390	27	115
LTA Series	Phase Sensitivity mrad/volt @ 830nm	V for ½ Wave Phase Modulator
360-40	13	242
360-80	26	120
360-120	39	80
360-160	52	60

Customized solutions are available upon request