

Series 3079 Low Voltage modulators are Pockels effect devices that operate in the transverse field mode. This well characterized and proven design is utilized as an extra-cavity intensity modulator. The Series 3079 is widely used in research and industrial applications and is modestly priced in comparison to competitive devices.

The high deuteration level KD*P (KD₂PO₄) crystals are mounted in a sealed housing available with or without index matching fluid. The EOM-3079 incorporates an outer metal housing which provides R.F. shielding and great mounting rigidity. The design features electrically floating, center fed crystals for low parasitic capacitance and maximum frequency response, replaceable windows, high contrast ratio, and integrally mounted accessories, such as wave plates, filters and polarizers.



3079 Modulators are RoHS and CE compliant.

Nominal Specifications	3079	3079-4	3079-6
Linear Aperture	2.5 mm	4.0 mm	6.0 mm
Number of Crystals	----- 2 -----		
Crystal Material	----- KD*P -----		
Maximum Transmittance (400-950 nm)	----- 95% -----		
Useful Optical Bandwidth, KD*P Crystals	----- 350 to 1300 nm -----		
Contrast Ratio for 1.5 arcminute Input Beam	500:1	> 500:1	> 500:1
Divergence at 633 nm, Typical			
Maximum Recommended CW Input Power	----- 5 Watts -----		
Beam Displacement	----- None -----		
Useful Electrical Bandwidth	----- DC - 75 MHZ -----		
Voltage Required for ½ Wave Retardation			
@ 515 nm	195 Volts	365 Volts	450 Volts
@ 633 nm	240 Volts	450 Volts	550 Volts
@ 1060 nm	400 Volts	755 Volts	925 Volts
Recommended Maximum Operating Voltage	500 Volts	1000 Volts	1500 Volts
Resonance Frequency, Nominal	----- ≈ 35 kHz -----		
Capacitance, Typical	50 pf	40 pf	50 pf
Electrical Connections	----- #2-56 Screw Terminals -----		
Dimensions: mm	----- 50.8 Diam x 131 Long -----		