

ConOptics Model 715-I Polarization Independent Optical Isolator



The Model 715-I is designed to work with unpolarized or randomly polarized lasers. The product replaces the conventional Glan polarizer's with calcite displacers at the input and output of the Faraday Rotator Assembly. Calcite crystals, when properly orientated, will generate two parallel beams with orthogonal polarizations.

The input calcite displacer splits the incident beam into two linear polarized beams. The separation of the two beams is determined by the length of the calcite displacer, and is designed to pass through the Faraday Rod.

The output calcite displacer recombines the two beams into one randomly polarized beam.

Key features:

Aperture	2.1mm
Transmission	>92%
Tuning Range	965 to 1135nm *
Offset	2.7mm
Isolation	> -30dB
Laser Damage Threshold (LDT)	> 500 W/cm ²

* Customized versions available upon request

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