# 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) | > 100 W/cm$^2$ |

** Customized versions available upon request

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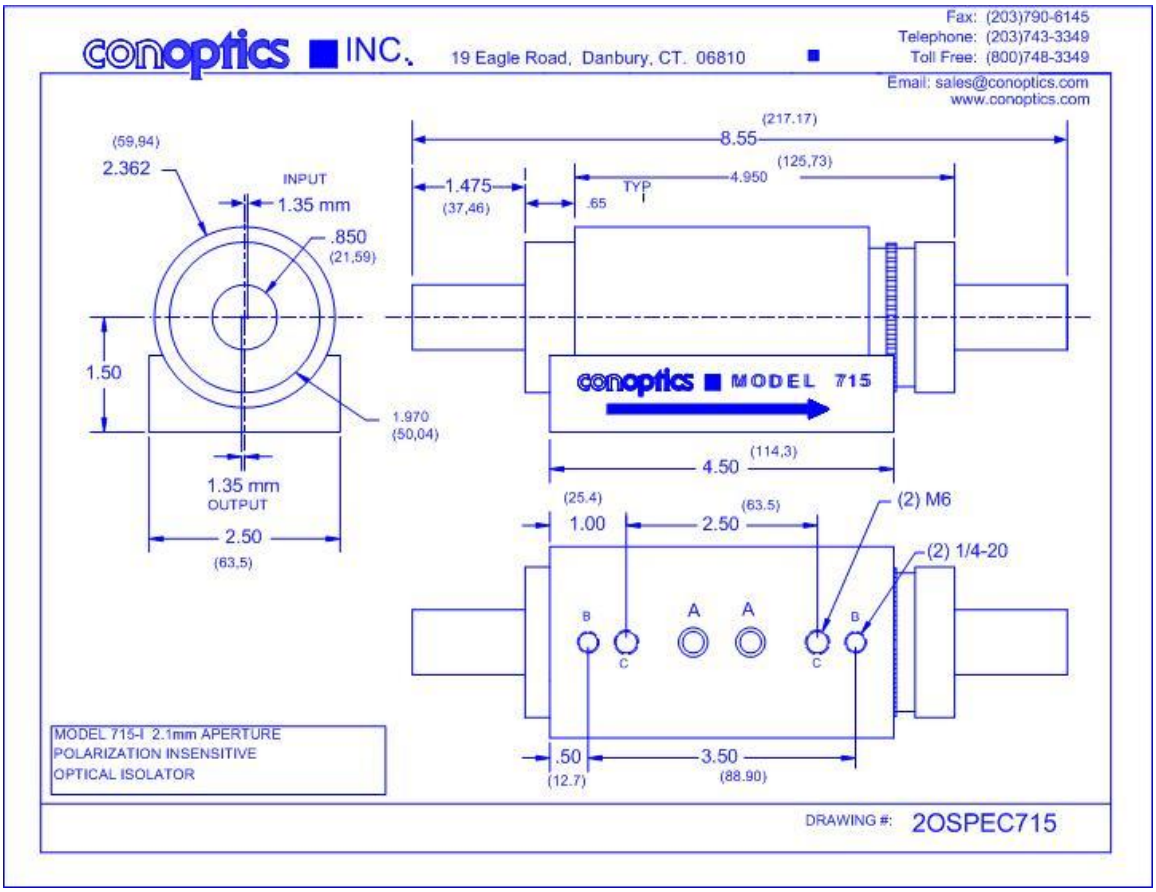
Conoptics offers two versions of the 715-I Optical Isolator.

**Option 1:** The <u>tunable</u> 2.1mm aperture Model 715-I

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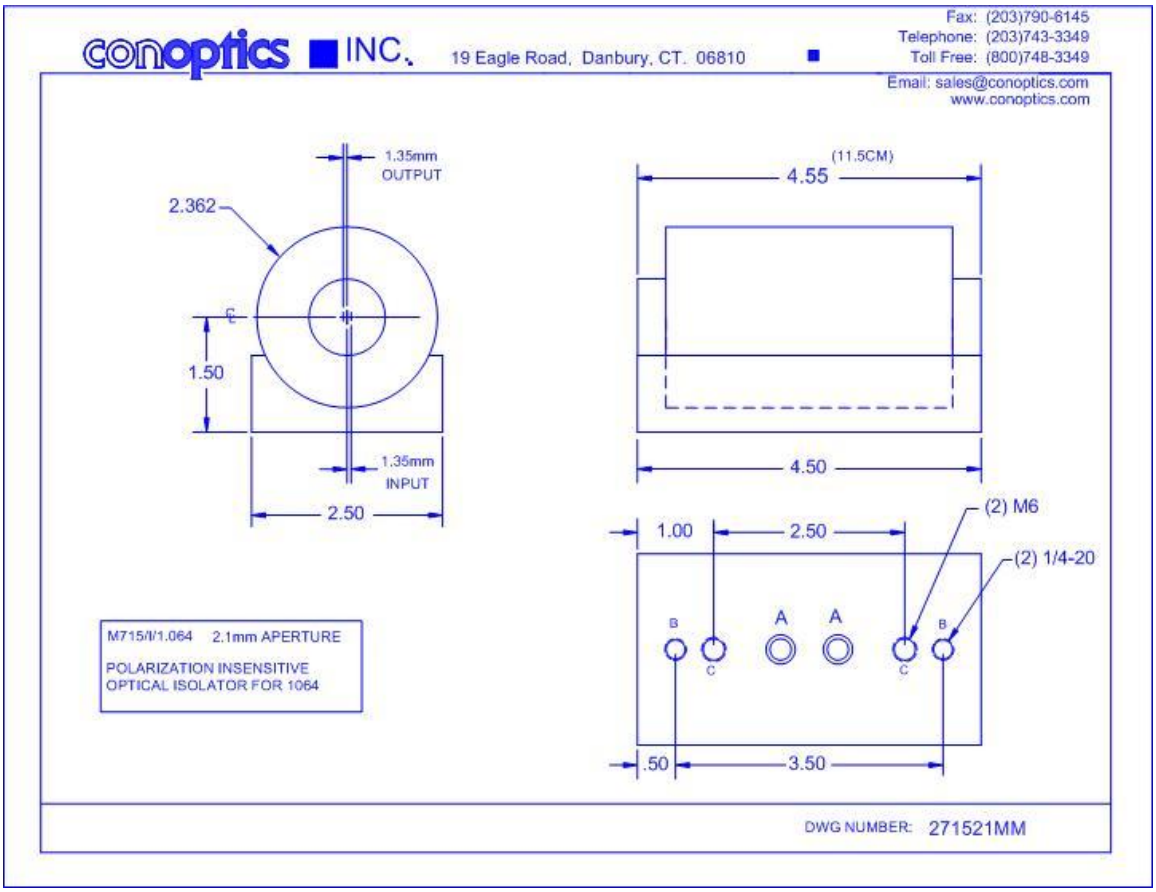
**Option 2:** The non-tunable 2.1mm aperture Model 715-I

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