



# 390-460nm OPTICAL ISOLATORS

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## DESCRIPTION

ISOWAVE isolators for the 390-460nm range offer 2 or 5 mm clear apertures, fixed or tunable operation, single or semi-double models, and the following power ratings:

- Medium – Glan Taylor polarizers (no escape ports)
- High – Glan Taylor polarizers with dual escape ports

Also available are Faraday rotators (no polarizers)

## FEATURES

- Wavelength Optimization
- Wide Tuning Range
  - High Isolation
  - Low Insertion Loss
- Removable Mounting Foot

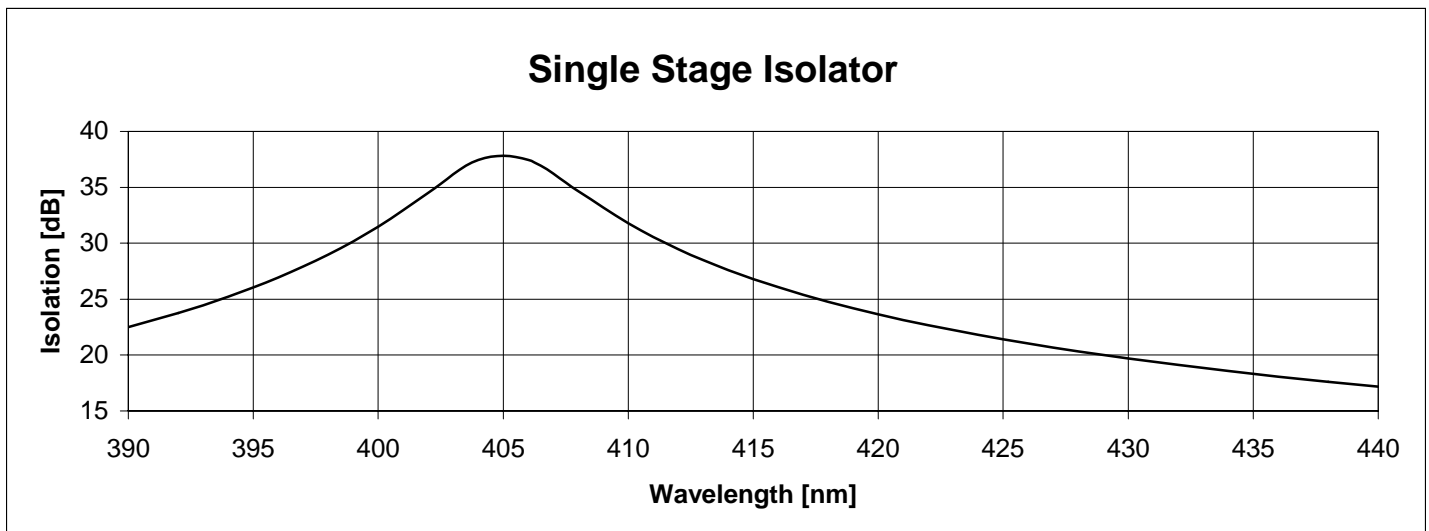
MODEL NUMBER	Clear Aperture	Isolation Minimum / Typical	Ins Loss Typical / Maximum	Transmission Minimum / Typical	Diameter	Length	Power Handling	Tunable	Broad-band
	mm	dB	dB	%	inch / mm	inch/mm	W/cm2	Yes/No	Yes/No
<b>390-460nm</b>									
I-40-FR-2	2	30 / 35	0.5	89	1.0 / 25.4	1.0 / 25.4	300	N	N
I-40-2-M	2	35 / 40	0.6 / 0.8	83 / 86	1.0 / 25.4	2.32 / 59	100	N	N
I-40-2-H	2	35 / 40	0.6 / 0.8	83 / 86	1.0 / 25.4	2.91 / 74	250	N	N
I-40-FR-5	5	30 / 35	0.5	89	1.375 / 34.9	3.07 / 78	300	N	N
I-40-T-5-M	5	35 / 40	0.6 / 0.8	83 / 86	1.375 / 34.9	4.12 / 105	100	Y	N
I-40-T-5-H	5	35 / 40	0.6 / 0.8	83 / 86	1.375 / 34.9	5.01 / 127	250	Y	N
I-40-SD-5-M	5	53 / 55	1.5 / 2.0	63 / 79	1.375 / 34.9	4.12 / 105	100	Y	N

### Wavelength Options

Isolators may be ordered centered anywhere between 390 and 460nm. Isowave will optimize on a best effort basis using available lasers, or customer may supply laser for alignment and testing. Insertion loss will increase as wavelengths approach 488nm.

### Model Number Options

FR = Faraday Rotator (45 +/- 3 degrees rotation, no polarizers)  
 M, H = Polarizer Power Level Options: Medium High  
 T = Tunable: Input polarizer may be rotated to maximize isolation  
 SD = Semi-Double: Single Center Polarizer, two rotator isolator





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