



# 500-600nm OPTICAL ISOLATORS

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<u>DESCRIPTION</u>	<u>FEATURES</u>
<p>ISOWAVE isolators for the 500-600nm range offer 2 or 5mm clear apertures, fixed or tunable operation, single or semi-double models and the following power ratings:</p> <ul style="list-style-type: none"> <li>• Low – Absorptive glass plate</li> <li>• Medium – Glan Taylor polarizers (no escape ports)</li> <li>• High – Glan Taylor polarizers with dual escape ports</li> </ul> <p>Also available are Faraday rotators (no polarizers).</p>	<ul style="list-style-type: none"> <li>• Wavelength optimization</li> <li>• Wide Tuning Range</li> <li>• High Isolation</li> <li>• Low Insertion Loss</li> <li>• Removable Mounting Foot</li> </ul>

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>500-600 nm</b>									
I-56-FR-2	2	30 / 35	0.2	95	1.0 / 25.4	1.0 / 25.4	300	N	N
I-56-2-L	2	38 / 40	3	50	1.0 / 25.4	1.0 / 25.4	10	N	N
I-56-2-L-LH	2	38 / 40	3	50	1.0 / 25.4	2.4 / 61	10	N	N
I-56-2-M	2	38 / 40	0.5 / 0.7	85 / 89	1.0 / 25.4	2.32 / 59	100	N	N
I-56-2-M-LH	2	38 / 40	0.5 / 0.7	85 / 89	1.0 / 25.4	3.54 / 90	100	N	N
I-56-2-H	2	38 / 40	0.5 / 0.7	85 / 89	1.0 / 25.4	4.13 / 105	250	N	N
I-56-2-PBS	2	38 / 40	0.5 / 0.7	85 / 89	1.0 / 25.4	1.89 / 48	100	N	N
I-5060-C-2-L	2	35 / 38	3	50	1.0 / 25.4	2.40 / 61	10	N	Y
I-5060-C-2-M	2	35 / 38	0.5 / 0.7	85 / 89	1.0 / 25.4	3.54 / 90	100	N	Y
I-5060-C-2-H	2	35 / 38	0.5 / 0.7	85 / 89	1.0 / 25.4	4.13 / 105	250	N	Y
I-56-FR-5	5	30 / 35	0.2	95	1.375 / 34.9	2.54 / 64	300	N	N
I-56-T-5-L	5	38 / 40	3	50	1.375 / 34.9	2.54 / 64	10	Y	N
I-56-T-5-L-LH	5	38 / 40	3	50	1.375 / 34.9	4.12 / 105	10	Y	N
I-56-T-5-M	5	38 / 40	0.5 / 0.7	85 / 89	1.375 / 34.9	2.52 / 64	100	Y	N
I-56-T-5-M-LH	5	38 / 40	0.5 / 0.7	85 / 89	1.375 / 34.9	4.12 / 105	100	Y	N
I-56-T-5-H-LH	5	38 / 40	0.5 / 0.7	85 / 89	1.375 / 34.9	5.01 / 127	250	Y	N
I-5060-C-5-L	5	38 / 40	3	50	1.375 / 34.9	4.12 / 105	10	Y	Y
I-5060-C-5-M	5	38 / 40	0.6 / 0.75	84 / 86	1.375 / 34.9	4.12 / 105	100	Y	Y
I-5060-C-5-H	5	38 / 40	0.6 / 0.75	84 / 86	1.375 / 34.9	5.01 / 127	250	Y	Y
I-56-SD-5-L	5	50 / 55	4.5 / 5.0	30 / 35	1.375 / 34.9	4.12 / 105	10	Y	N
I-56-SD-5-M	5	55 / 60	1.0 / 1.5	70 / 79	1.375 / 34.9	4.12 / 105	100	Y	N
I-56-SD-5-H	5	55 / 60	1.0 / 1.5	70 / 79	1.375 / 34.9	5.01 / 127	250	Y	N

**Model Number Options**

FR = Faraday Rotator (45 +/- 3 degrees rotation, no polarizers)  
 L, M, H = Polarizer Power Level Options: Low, Medium, High  
 C = Compensated: Broadband Isolation: 30dB over +/-50nm  
 T = Tunable: Input polarizer may be rotated to maximize isolation  
 SD = Semi Double: Single center polarizer, two rotator isolator.

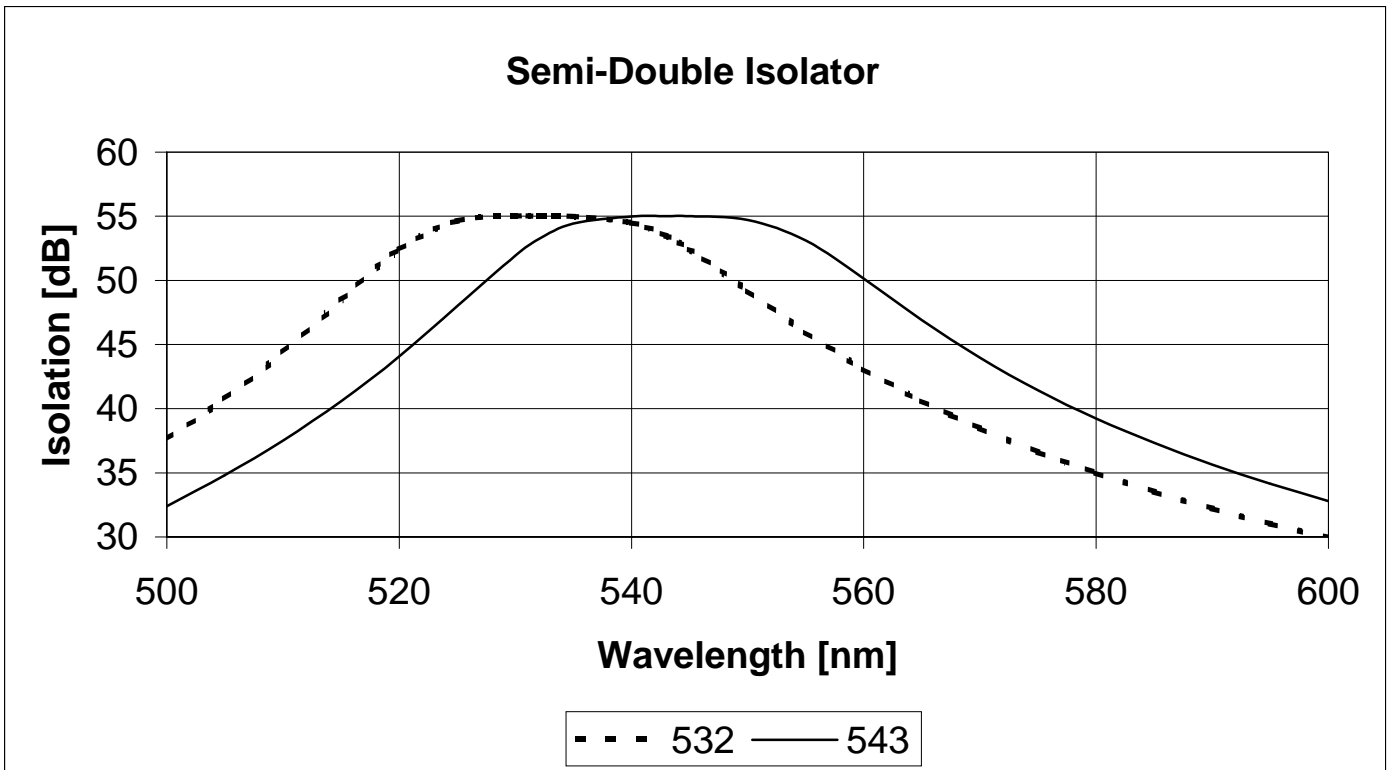
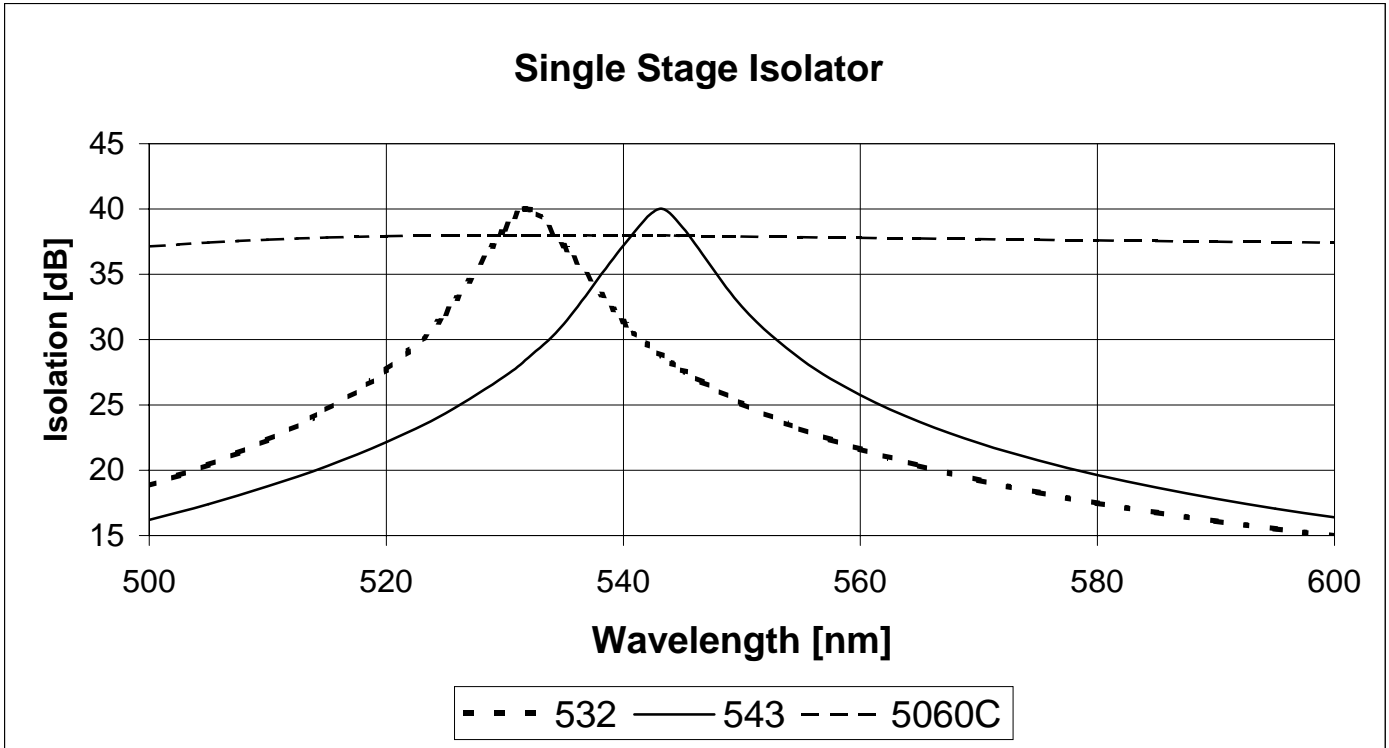
**Wavelength Options**

\*All isolators may be ordered centered anywhere between 500 and 600nm. Isowave will optimize on a best effort basis using available lasers, or customer may supply laser for alignment and testing.  
 \*C models are optimized at 532nm as standard and work over the entire 500-600nm wavelength range without tuning.



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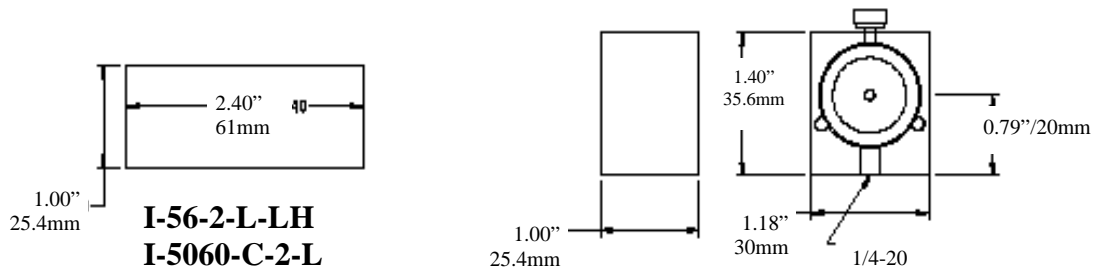
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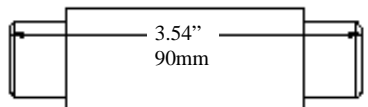


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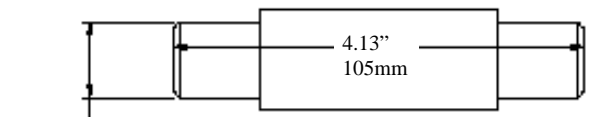
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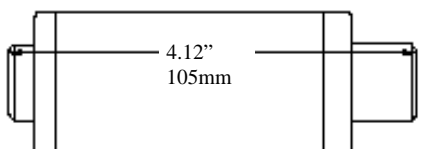
**I-56-2-L-LH**  
**I-5060-C-2-L**



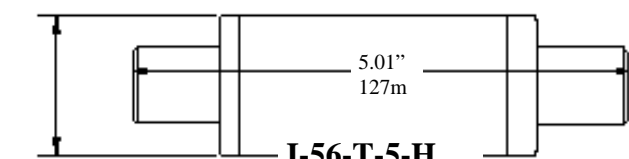
**I-56-2-M-LH**  
**I-5060-C-2-M**



**I-56-2-H**  
**I-5060-C-2-H**



**I-56-T-5-L or 5-M**  
**I-5060-C-L or M**  
**I-56-SD-5-L or M**



**I-56-T-5-H**  
**I-5060-C-5-H**  
**I-56-SD-5-H**

