1100-2300nm OPTICAL ISOLATORS

www.isowave.com
64 Harding Avenue
Dover NJ 07801
Phone 973-328-7000
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DESCRIPTION

ISOWAVE isolators for 1100-2300nm feature LPE film rotators, and offer 5 mm clear aperture single and double-stage models, and two power ratings.

- Low – Absorptive glass plate polarizers
- High – Glan Taylor polarizers with dual escape ports

Also available are models for 800 and 1064 nm and Faraday rotators (no polarizers).

FEATURES

- Wavelength Optimization
- Wide Tuning Range
- High Isolation
- Low Insertion Loss
- Injection Port Option

Model Number	Clear Aperture	Isolation Min/Typ	Insertion Loss Typ/Max	Transmission Min/Typ	Diameter	Length	Power Handling
	mm	dB	dB	%	inch / mm	inch/mm	W/cm2
Faraday Rotators							
I-80-B-FR-5	5	30	3 to 6	25 to 50	0.75 / 19	1.48/ 37.6	50
I-106-B-FR-5	5	30	1	80	0.75 / 19	1.48 / 37.6	50
I-11-B-FR-5	5	30	0.3	93	0.75 / 19	1.48 / 37.6	100
I-12-B-FR-5	5	30	0.1	97	0.75 / 19	1.48 / 37.6	100
I-13-B-FR-5	5	35	0.1	97	0.75 / 19	1.48 / 37.6	300
I-14-B-FR-5	5	35	0.1	97	0.75 / 19	1.48 / 37.6	300
I-15-B-FR-5	5	35	0.1	97	0.75 / 19	1.48 / 37.6	300
I-16-B-FR-5	5	35	0.1	97	0.75 / 19	1.48 / 37.6	300
I-17-B-FR-5	5	28	0.25	97	0.75 / 19	1.48 / 37.6	300
I-21-B-FR-5	5	28	0.5	89	0.75 / 19	1.48 / 37.6	50
I-23-B-FR-5	5	28	0.5	89	0.75 / 19	1.48 / 37.6	50
Single Stage Tunable							
I-80-B-5-L	5	30 / 35	3 to 6	25 to 50	0.75 / 19	1.48 / 37.6	50
I-106-B-5-L	5	30 / 35	1.2 / 1.5	70 / 75	0.75 / 19	1.48 / 37.6	50
I-11-B-5-L	5	30 / 35	0.4 / 0.6	87 / 91	0.75 / 19	1.48 / 37.6	100
I-11-T-5-H	5	30 / 35	0.6 / 0.75	87 / 84	1.375 / 34.9	4.92 / 125	250
I-12-B-5-L	5	35 / 40	0.2 / 0.4	91 / 95	0.75 / 19	1.48 / 37.6	100
I-12-T-5-H	5	35 / 40	0.5 / 0.7	85 / 89	1.375 / 34.9	4.92 / 125	250
I-13-B-5-L	5	38 / 43	0.2 / 0.4	91 / 95	0.75 / 19	1.48 / 37.6	100
I-13-T-5-H	5	35 / 38	0.5 / 0.7	85 / 89	1.375 / 34.9	4.92 / 125	250
I-14-B-~~5-L~~	5	38 / 43	0.2 / 0.4	91 / 95	0.75 / 19	1.48 / 37.6	100
I-14-T-5-H	5	35 / 38	0.5 / 0.7	85 / 89	1.375 / 34.9	4.92 / 125	250
I-15-B-5-L	5	38 / 43	0.2 / 0.4	91 / 95	0.75 / 19	1.48 / 37.6	100
I-15-T-5-H	5	35 / 38	0.5 / 0.7	85 / 89	1.375 / 34.9	4.92 / 125	250
I-16-B-5-L	5	38 / 43	0.2 / 0.4	91 / 95	0.75 / 19	1.48 / 37.6	100
I-16-T-5-H	5	35 / 38	0.5 / 0.7	85 / 89	1.375 / 34.9	4.92 / 125	250
I-17-B-5-L	5	30 / 35	0.4 / 0.6	86 / 91	0.75 / 19	1.48 / 37.6	50
I-17-T-5-H	5	35 / 38	0.5 / 0.7	85 / 89	1.375 / 34.9	4.92 / 125	250
I-21-B-5-L	5	30 / 35	0.8 / 1	79 / 83	0.75 / 19	1.48 / 37.6	50
I-23-B-5-L	5	30 / 35	0.8 / 1	79 / 83	0.75 / 19	1.48 / 37.6	50

Specifications subject to change without notice

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	mm	dB	dB	%	inch / mm	inch/mm	W/cm2
Double Stage Fixed							
I-11-UHP-5-L	5	60 / 65	0.8 / 1.2	79 / 89	0.75 / 19	1.67 / 42.3	100
I-12-UHP-5-L	5	60 / 65	0.5 / 1.0	79 / 89	0.75 / 19	1.67 / 42.3	100
I-13-UHP-5-L	5	63 / 75	0.4 / 0.8	83 / 91	0.75 / 19	1.67 / 42.3	100
I-14-UHP-5-L	5	63 / 75	0.4 / 0.8	83 / 91	0.75 / 19	1.67 / 42.3	100
I-15-UHP-5-L	5	63 / 75	0.4 / 0.8	83 / 91	0.75 / 19	1.67 / 42.3	100
I-16-UHP-5-L	5	63 / 75	0.4 / 0.8	83 / 91	0.75 / 19	1.67 / 42.3	100
I-17-UHP-5-L	5	63 / 75	0.8 / 1.2	83 / 91	0.75 / 19	1.67 / 42.3	50
I-21-UHP-5-L	5	63 / 75	1.5 / 2	63 / 70	0.75 / 19	1.67 / 42.3	50
I-23-UHP-5-L	5	63 / 75	1.5 / 2	63 / 70	0.75 / 19	1.67 / 42.3	50

Model Number Codes

FR = Faraday Rotator: Isolation Column shows Extinction Ratio
B = Tunable: Input polarizer rotates to maximize isolation
L = Low power polarizers
T, H = Tunable: High power polarizers with escape ports
UHP = Ultra High Performance: Full double stage

WAVELENGTH OPTIONS

Model Number	Standard Center Wavelength (nm)	Range for Center Wavelength (nm)	Tuning Range from Center (nm)
I-11-B/-UHP	1170	1150-1180	+/-25
I-12-B/-UHP	1220	1180-1280	+/-40
I-13-B/-UHP	1310	1280-1380	+/-60
I-14-B/-UHP	1480	1430-1510	+/-70
I-15-B/-UHP	1550	1510-1590	+/-70
I-16-B/-UHP	1625	1590-1675	+/-75
I-17-B/-UHP	1750	1700-1750	+/-75
I-21-B	2050	2050-2100	+/-50
I-23-B	2330	2280-2380	+/-50

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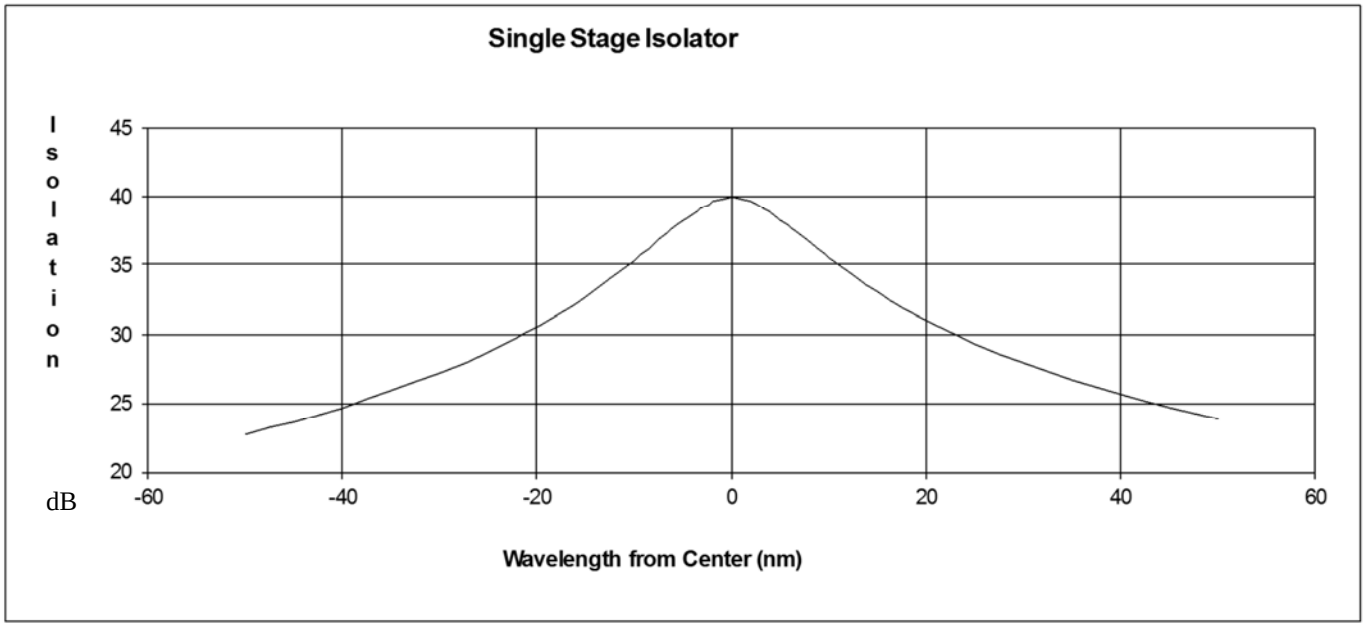
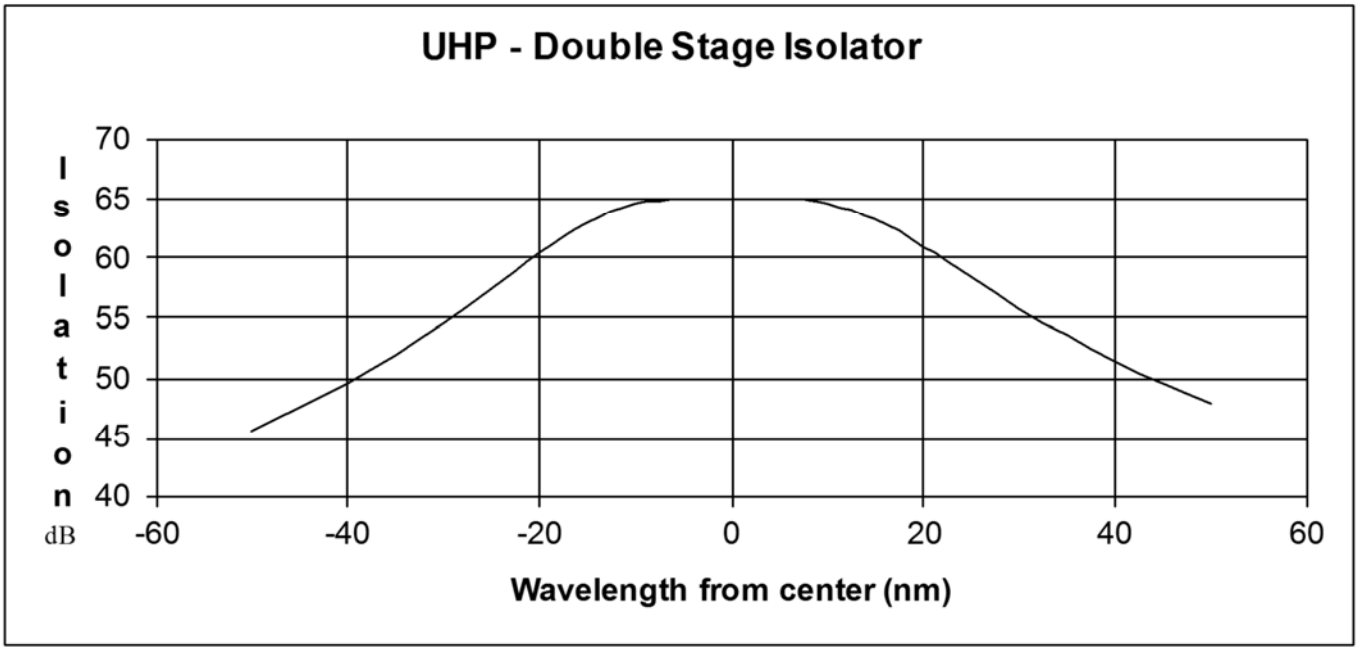
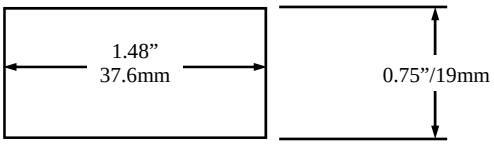
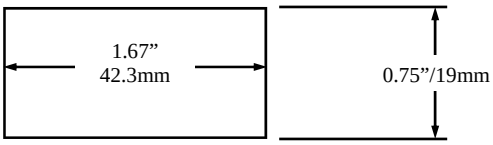






I-##-B-5-L
I-##-B-FR-5



I-##-UHP-5-L

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