



1100-2300nm OPTICAL ISOLATORS

www.isowave.com
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DESCRIPTION

ISOWAVE isolators for 1100-2300nm offer 4 or 5 mm clear aperture in compact tunable models featuring LPE film rotators and absorptive glass plate polarizers. Also available are models for 800 and 1064 nm, larger models with escape ports for rejected beam monitoring or beam injection, and Faraday rotators (no polarizers).

FEATURES

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

MODEL NUMBER	Clear Aperture mm	Isolation Minimum/ Typical	Ins Loss Typical/ Minimum	Transmission Minimum/ Typical	Diameter	Length	Power Handling	Tunable	Broad Band
	mm	dB	dB	%	inch / mm	inch/mm	W/cm2	Yes/No	Yes/No
1100-2300nm, LPE Based - Single Stage									
I-80-B-4-L	4	30 / 35	3 to 6	25 to 50	0.75 / 19	1.48 / 37.6	10	Y	N
I-106-B-FR-4	4	30	1	80	0.75 / 19	1.48 / 37.6	10	N	N
I-106-B-4-L	4	30 / 35	1.2 / 1.5	70 / 75	0.75 / 19	1.48 / 37.6	10	Y	N
I-11-B-FR-4	4	30	0.3	93	0.75 / 19	1.48 / 37.6	100	N	N
I-11-B-4-L	4	30 / 35	0.4 / 0.6	87 / 91	0.75 / 19	1.48 / 37.6	100	Y	N
I-11-B-FR-5	5	30	0.3	93	0.75 / 19	1.48 / 37.6	100	N	N
I-11-B-5-L	5	30 / 35	0.4 / 0.6	87 / 91	0.75 / 19	1.48 / 37.6	100	Y	N
I-11-T-5-H	5	30 / 35	0.6 / 0.75	87 / 84	1.375 / 34.9	4.92 / 125	100	Y	N
I-12-B-FR-4	4	30	0.1	97	0.75 / 19	1.48 / 37.6	100	N	N
I-12-B-4-L	4	35 / 40	0.2 / 0.4	91 / 95	0.75 / 19	1.48 / 37.6	100	Y	N
I-12-B-FR-5	5	30	0.1	97	0.75 / 19	1.48 / 37.6	100	N	N
I-12-B-5-L	5	35 / 40	0.2 / 0.4	91 / 95	0.75 / 19	1.48 / 37.6	100	Y	N
I-12-T-5-H	5	35 / 40	0.5 / 0.7	85 / 89	1.375 / 34.9	4.92 / 125	100	Y	N
I-13-B-FR-4	4	35	0.1	97	0.75 / 19	1.48 / 37.6	300	N	N
I-13-B-4-L	4	38 / 43	0.2 / 0.4	91 / 95	0.75 / 19	1.48 / 37.6	300	Y	N
I-13-T-4-H	4	35 / 38	0.5 / 0.7	85 / 89	1.375 / 34.9	4.92 / 125	300	Y	N
I-13-B-FR-5	5	35	0.1	97	0.75 / 19	1.48 / 37.6	300	N	N
I-13-B-5-L	5	38 / 43	0.2 / 0.4	91 / 95	0.75 / 19	1.48 / 37.6	300	Y	N
I-14-B-FR-4	4	35	0.1	97	0.75 / 19	1.48 / 37.6	300	N	N
I-14-B-4-L	4	38 / 43	0.2 / 0.4	91 / 95	0.75 / 19	1.48 / 37.6	300	Y	N
I-15-B-FR-4	4	35	0.1	97	0.75 / 19	1.48 / 37.6	300	N	N
I-15-B-4-L	4	38 / 43	0.2 / 0.4	91 / 95	0.75 / 19	1.48 / 37.6	300	Y	N
I-15-B-FR-5	5	35	0.1	97	0.75 / 19	1.48 / 37.6	300	N	N
I-15-B-5-L	5	38 / 43	0.2 / 0.4	91 / 95	0.75 / 19	1.48 / 37.6	300	Y	N
I-15-T-5-H	5	35 / 38	0.5 / 0.7	85 / 89	1.375 / 34.9	4.92 / 125	300	Y	N
I-16-B-FR-4	4	35	0.1	97	0.75 / 19	1.48 / 37.6	300	N	N
I-16-B-4-L	4	38 / 43	0.2 / 0.4	91 / 95	0.75 / 19	1.48 / 37.6	300	Y	N
I-17-B-FR-4	4	28	0.25	97	0.75 / 19	1.48 / 37.6	50	N	N
I-17-B-4-L	4	30 / 35	0.4 / 0.6	86 / 91	0.75 / 19	1.48 / 37.6	50	Y	N
I-21-B-FR-4	4	28	0.5	89	0.75 / 19	1.48 / 37.6	25	N	N
I-21-B-4-L	4	30 / 35	0.8 / 1	79 / 83	0.75 / 19	1.48 / 37.6	25	Y	N
I-21-B-FR-5	5	28	0.5	89	0.75 / 19	1.48 / 37.6	25	N	N
I-21-B-5-L	5	30 / 35	0.8 / 1	79 / 83	0.75 / 19	1.48 / 37.6	25	Y	N
I-23-B-FR-4	5	28	0.5	89	0.75 / 19	1.48 / 37.6	25	N	N
I-23-B-4-L	5	30 / 35	0.8 / 1	79 / 83	0.75 / 19	1.48 / 37.6	25	Y	N
I-23-B-FR-5	5	28	0.5	89	0.75 / 19	1.48 / 37.6	25	N	N
I-23-B-5-L	5	30 / 35	0.8 / 1	79 / 83	0.75 / 19	1.48 / 37.6	25	Y	N



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	mm	dB	dB	%	inch / mm	inch/mm	W/cm2	Yes/No	Yes/No
1100-2300nm LPE Film Based - Double Stage									
I-12-UHP-4 or 5	4 or 5	60 / 65	0.5 / 1.0	79 / 89	0.75 / 19	1.67 / 42.3	300	N	N
I-13-UHP-4 or 5	4 or 5	63 / 75	0.4 / 0.8	83 / 91	0.75 / 19	1.67 / 42.3	300	N	N
I-14-UHP-4 or 5	4 or 5	63 / 75	0.4 / 0.8	83 / 91	0.75 / 19	1.67 / 42.3	300	N	N
I-15-UHP-4 or 5	4 or 5	63 / 75	0.4 / 0.8	83 / 91	0.75 / 19	1.67 / 42.3	300	N	N
I-16-UHP-4 or 5	4 or 5	63 / 75	0.4 / 0.8	83 / 91	0.75 / 19	1.67 / 42.3	300	N	N
I-17-UHP-4 or 5	4 or 5	63 / 75	0.4 / 0.8	83 / 91	0.75 / 19	1.67 / 42.3	50	N	N
I-21-UHP-4 or 5	4 or 5	63 / 75	1.5 / 2	63 / 70	0.75 / 19	1.67 / 42.3	25	N	N
I-23-UHP-4 or 5	4 or 5	63 / 75	1.5 / 2	63 / 70	0.75 / 19	1.67 / 42.3	25	N	N

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

Model Number Options

FR = Faraday Rotator: 45+/-3 degrees rotation, no polarizers

B = Tunable: Input polarizer may be rotated to maximize isolation

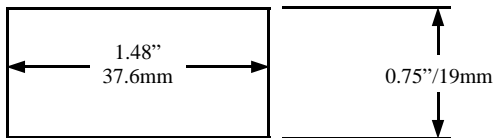
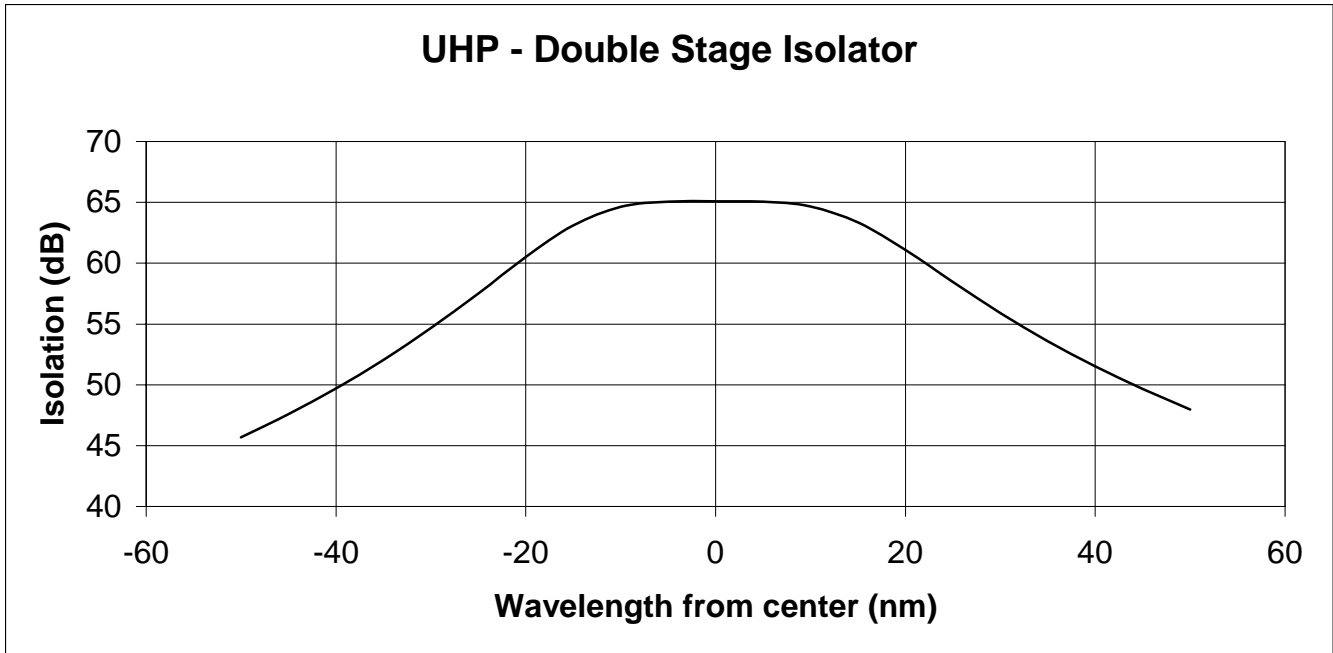
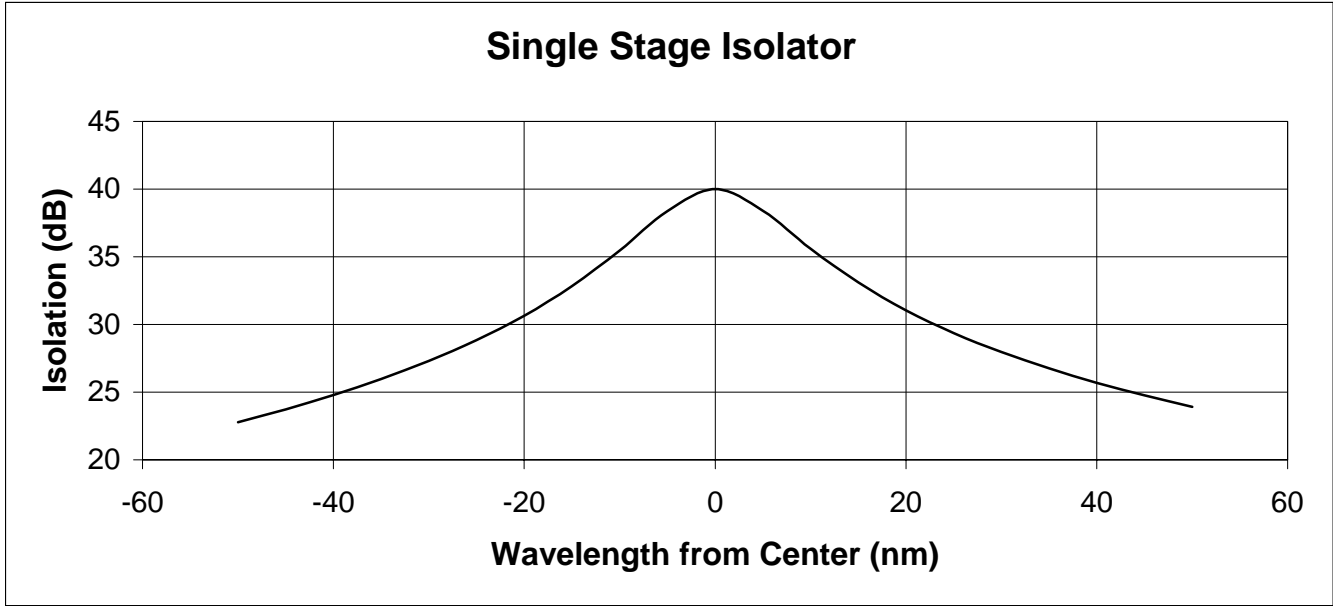
H = Tunable: High power polarizers with escape/injection ports

UHP = Ultra High Performance: Full double stage, non-tunable

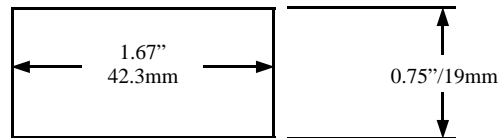


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I-##-B-4 or 5
I-##-B-FR-4 or 5



I-##-UHP-4 or 5