



700-900nm OPTICAL ISOLATORS

www.isowave.com
64 Harding Avenue
Dover NJ 07801
Phone 973-328-7000
Fax 973-328-7036
info@isowave.com

DESCRIPTION

ISOWAVE isolators for the 700-900nm wavelength range offer 2, 3, 4 or 5mm clear apertures, fixed or tunable operation, single or semi-double models, and the following power ratings:

- Low – Absorptive glass plate
- 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
- Compact Double Stage
- 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
			(see note)	(see note)			(see note)		
700-900nm									
I-80-FR-2	2	30 / 35	0.2	95	1.0 / 25.4	2.40 / 61	300	N	N
I-80-2-L	2	38 / 40	0.5 / 0.8	83 / 89	1.0 / 25.4	2.40 / 61	50	N	N
I-80-2-M	2	38 / 40	0.4 / 0.7	85 / 91	1.0 / 25.4	3.54 / 90	100	N	N
I-80-2-H	2	38 / 40	0.4 / 0.7	85 / 91	1.0 / 25.4	4.13 / 105	250	N	N
I-7090-C-2-L	2	35 / 38	0.5 / 0.8	83 / 89	1.0 / 25.4	2.40 / 61	50	N	Y
I-7090-C-2-M	2	38 / 40	0.5 / 0.75	84 / 89	1.0 / 25.4	3.54 / 90	100	N	Y
I-7090-C-2-H	2	38 / 40	0.5 / 0.75	84 / 89	1.0 / 25.4	4.13 / 105	250	N	Y
I-80-U-2-L	2	60 / 63	0.9 / 1.4	72 / 81	1.0 / 25.4	3.31 / 84	50	N	N
I-80-FR-3	3	30 / 35	0.2	95	1.0 / 25.4	2.40 / 61	300	N	N
I-80-3-L	3	38 / 40	0.5 / 0.8	83 / 89	1.0 / 25.4	2.40 / 61	50	N	N
I-80-3-M	3	38 / 40	0.4 / 0.7	85 / 91	1.0 / 25.4	3.54 / 90	100	N	N
I-80-3-H	3	38 / 40	0.4 / 0.7	85 / 91	1.0 / 25.4	4.13 / 105	250	N	N
I-80-FR-4	4	30 / 35	0.2	95	1.375 / 34.9	3.07 / 78	300	N	N
I-80-T-4-L	4	38 / 40	0.5 / 0.8	83 / 89	1.375 / 34.9	3.03 / 77	50	Y	N
I-80-T-4-M	4	38 / 40	0.4 / 0.7	85 / 91	1.375 / 34.9	4.12 / 105	100	Y	N
I-80-T-4-H	4	38 / 40	0.4 / 0.7	85 / 91	1.375 / 34.9	5.01 / 127	250	Y	N
I-80-U-4-L	4	60 / 63	0.9 / 1.4	72 / 81	1.375 / 34.9	3.9 / 99	50	N	N
I-80-FR-5	5	30 / 35	0.2	95	1.375 / 34.9	3.07 / 78	300	N	N
I-80-T-5-L	5	38 / 40	0.5 / 0.8	83 / 89	1.375 / 34.9	4.12 / 105	50	Y	N
I-80-T-5-M	5	38 / 40	0.4 / 0.7	85 / 91	1.375 / 34.9	4.12 / 105	100	Y	N
I-80-T-5-PBS	5	38 / 40	0.4 / 0.7	85 / 91	1.375 / 34.9	3.07 / 78	100	Y	N
I-80-T-5-H	5	38 / 40	0.4 / 0.7	85 / 91	1.375 / 34.9	5.01 / 127	250	Y	N
I-7090-C-5-L	5	38 / 40	0.5 / 0.8	83 / 89	1.375 / 34.9	4.12 / 105	50	Y	Y
I-7090-C-5-M	5	38 / 40	0.5 / 0.75	84 / 89	1.375 / 34.9	4.12 / 105	100	Y	Y
I-7090-C-5-H	5	38 / 40	0.5 / 0.75	84 / 89	1.375 / 34.9	5.01 / 127	250	Y	Y
I-80-SD-4-M	4	55 / 60	1.0 / 1.5	70 / 79	1.375 / 34.9	4.69 / 119	100	Y	N
I-80-SD-4-MHM	4	55 / 60	1.0 / 1.5	70 / 79	1.375 / 34.9	4.69 / 119	100	Y	N
I-80-SD-4-H	4	55 / 60	1.0 / 1.5	70 / 79	1.375 / 34.9	4.97 / 127	250	Y	N
I-80-SD-5-L	5	55 / 60	1.0 / 1.5	70 / 79	1.375 / 34.9	4.69 / 119	50	Y	N
I-80-SD-5-M	5	55 / 60	1.0 / 1.5	70 / 79	1.375 / 34.9	4.69 / 119	100	Y	N
I-80-SD-5-MHM	5	55 / 60	1.0 / 1.5	70 / 79	1.375 / 34.9	4.69 / 119	100	Y	N
I-80-SD-5-H	5	55 / 60	1.0 / 1.5	70 / 79	1.375 / 34.9	4.97 / 127	250	Y	N
Note	At wavelengths below 780nm all Low Power models (suffix -L) have higher insertion loss, lower transmission								



700-900nm OPTICAL ISOLATORS

www.isowave.com
 64 Harding Avenue
 Dover NJ 07801
 Phone 973-328-7000
 Fax 973-328-7036
 info@isowave.com

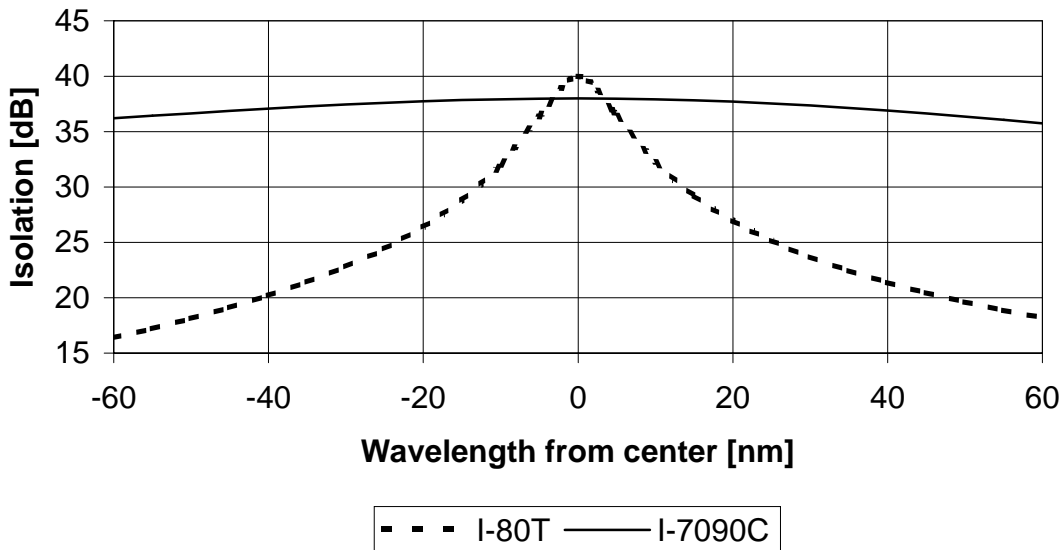
Wavelength Options

- * All isolators may be ordered centered anywhere between 700-900nm. Isowave will optimize on best effort basis using available lasers, or customer may supply laser for alignment and testing.
- * Unless otherwise specified, all 5mm CA isolators are available as 4mm CA with identical mechanical and optical specifications
- * All Low Power models will have higher insertion loss below 780nm.

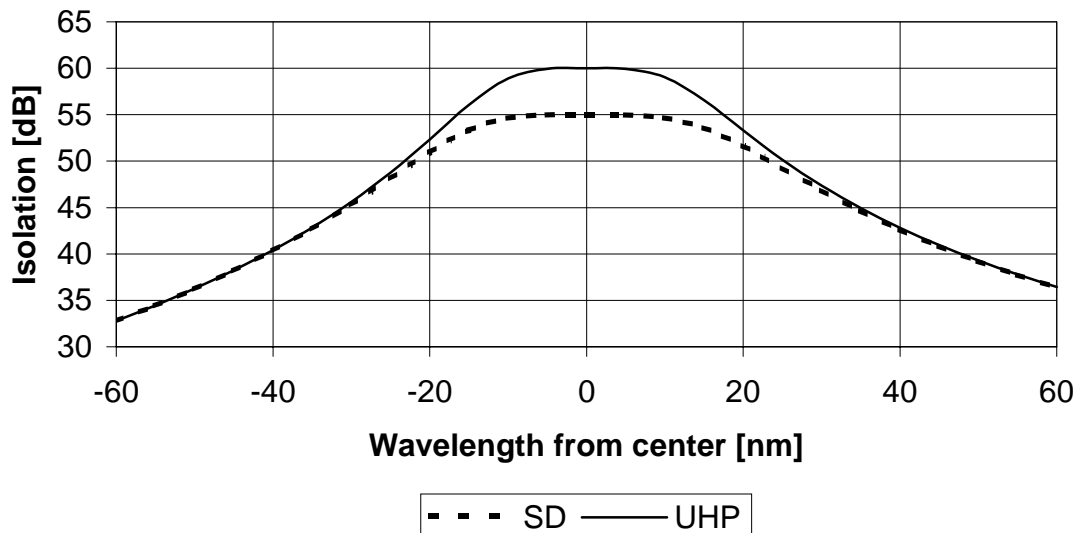
Model Number Options

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

Single Stage Isolators



Semi-Double & Double Stage (UHP) Isolators





700-900nm OPTICAL ISOLATORS

www.isowave.com
 64 Harding Avenue
 Dover NJ 07801
 Phone 973-328-7000
 Fax 973-328-7036
 info@isowave.com

