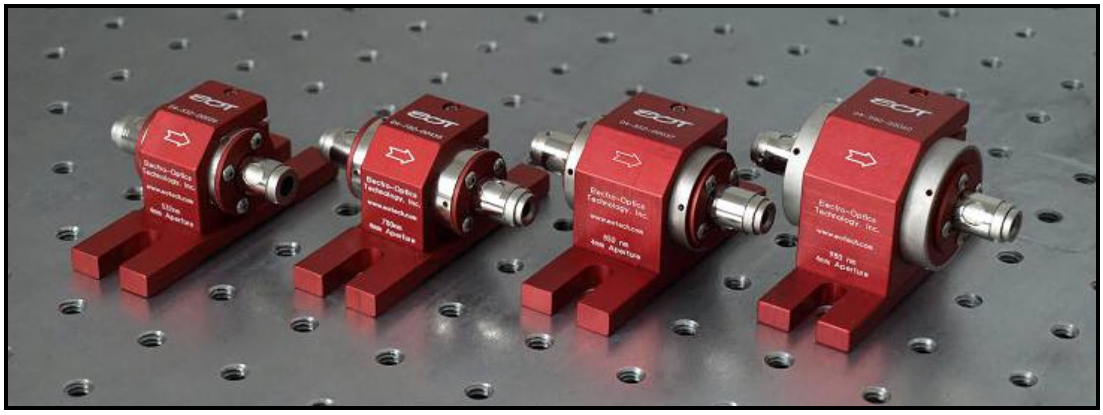
Electro-Optics Technology, Inc.

500-1030nm Wavelength Tunable Faraday Isolators



Applications:	Features:
• Eliminate frequency instability in laser diodes due to optical feedback	• Wavelength tunability allows optimal isolation over a range of wavelengths
• Eliminate parasitic oscillations in amplified laser systems	• Easy to align isolator for various polarizations
• Eliminate relaxation oscillations in mode-locked lasers	• Optical λ/2 plate available
	• All isolators have double escape ports on input and output of the isolators

ISOLATORS

Part No. (Model) [a]	Center λ (nm)	Spectral Range (nm)	Isolation @25°C	Transmission @25°C	Polarizer Type	Damage Threshold
110-10081-0001 (4I980-LP)	980	960-1030	30-38dB	>90%	Dichroic Glass	25W/cm^2 CW
110-10077-0001 (4I850-LP)	850	840-960	30-38dB	>88%	Dichroic Glass	25W/cm^2 CW
110-10073-0001 (4I780-LP)	780	720-840	30-38dB	>82%	Dichroic Glass	25W/cm^2 CW
110-10069-0001 (4I650-LP)	650	630-700	30-35dB	>75%	Dichroic Glass	25W/cm^2 CW
110-10082-0001 (4I980-MP)	980	900-1030	27-35dB	>88%	PBS Cube	1J/cm^2 @ 10ns
110-10078-0001 (4I850-MP)	850	800-900	27-35dB	>88%	PBS Cube	1J/cm^2 @ 10ns
110-10074-0001 (4I780-MP)	780	720-830	27-35dB	>88%	PBS Cube	1J/cm^2 @ 10ns
110-10070-0001 (4I650-MP)	650	600-680	27-32dB	>88%	PBS Cube	1J/cm^2 @ 10ns
110-10068-0001 (4I532-MP)	532	500-600	27-32dB	>88%	PBS Cube	1J/cm^2 @ 10ns

ROTATORS

Part No. (Model) [a]	Center λ ±10nm	Extinction @25°C (dB) [b]	Transmission @25°C	Polarizer Type	Pulsed Damage Threshold @10ns
110-10084-0001 (4R980)	980	≥30	>90%	NA	3J/cm^2
110-10080-0001 (4R850)	850	≥30	>88%	NA	3J/cm^2
110-10076-0001 (4R780)	780	≥30	>82%	NA	3J/cm^2
110-10072-0001 (4R650)	650	≥30	>75%	NA	3J/cm^2
110-10095-0001 (4R532)	532	≥30	>88%	NA	3J/cm^2

Notes:
a. Product specifications and pricing subject to change without notice.
b. When placed between crossed polarizers with extinction ratios of ≥1000:1.

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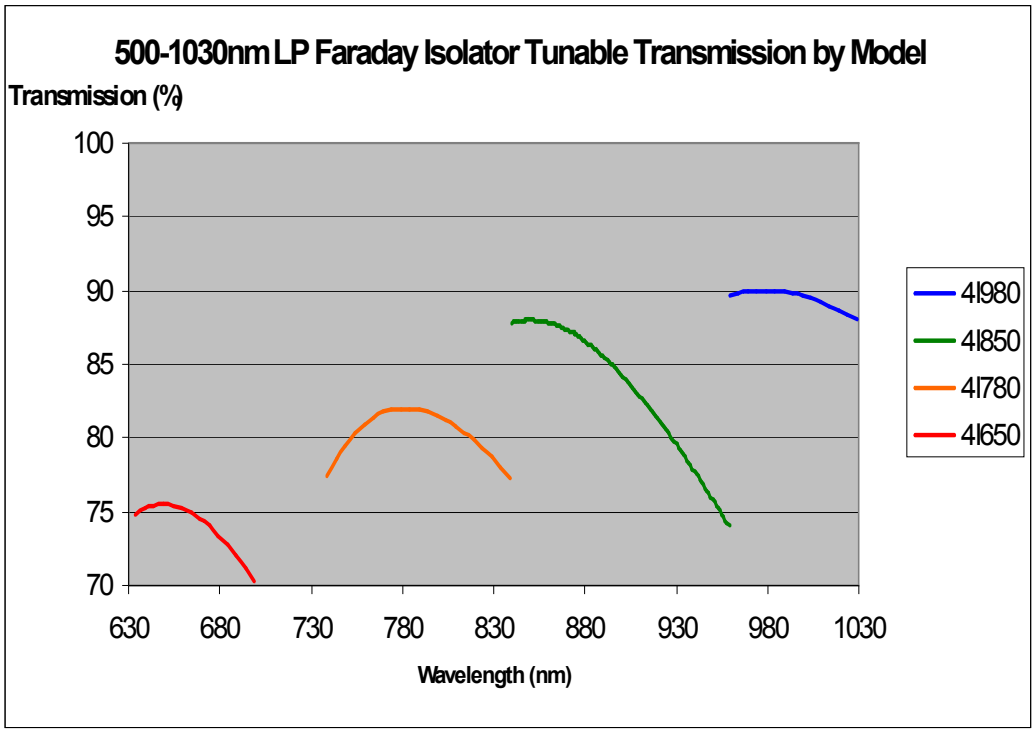

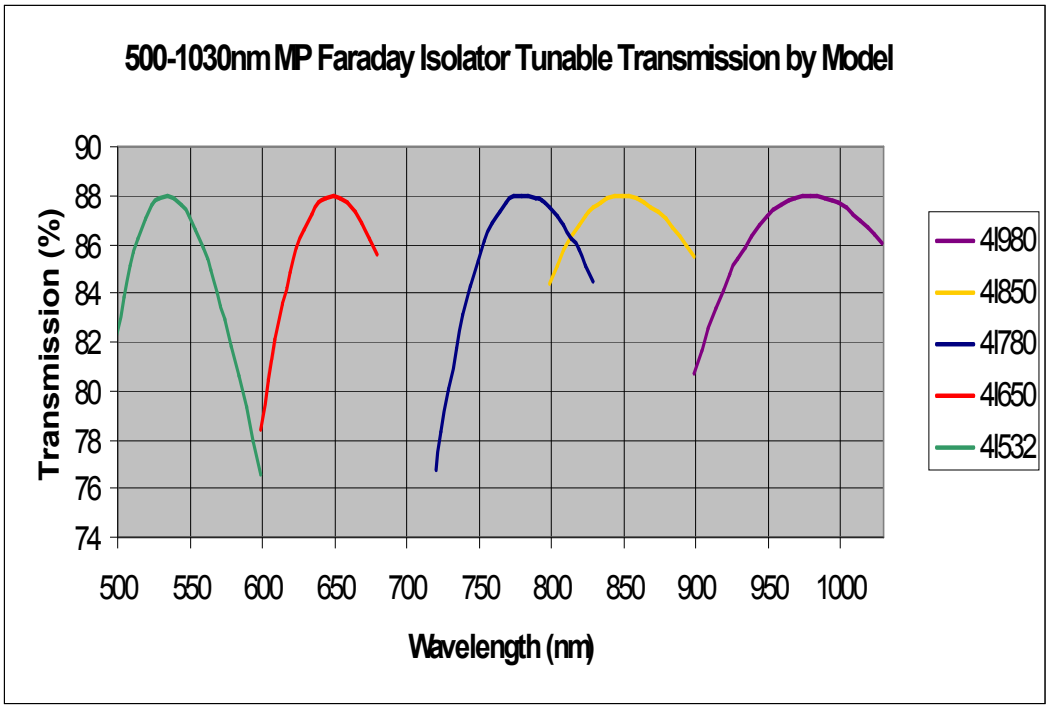

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