



Electro-Optics Technology, Inc.

Innovative High Quality
Laser Solutions

TORNOS Compact

Optical Isolators

527 nm to 855 nm



EOT's TORNOS Compact optical isolators are designed for wide-ranging end applications where optical feedback can adversely affect laser performance. TORNOS Compact isolators provide high transmission in the forward direction while strongly attenuating light traveling in the reverse direction, protecting lasers from the deleterious effects of back reflections.

Our TORNOS Compact isolator solutions deliver industry-best laser reliability and performance. The TORNOS family of isolators covers a variety of wavelengths from the VIS to NIR. A range of isolators is available which allow for optimal isolation and transmission at specific wavelengths, depending on the model, and within the spectral bandwidth of the isolator. Our standard models are available at wavelengths common to many applications. We can also supply the TORNOS Compact optimized for non-standard wavelengths upon request.

Some common applications for the TORNOS Compact are the elimination of frequency instability in single frequency lasers such as laser diodes and OPSLs, the prevention of mode-hopping in external cavity diode lasers, and the elimination of parasitic oscillations due to ASE in amplified laser systems.

TORNOS Compact isolators contain optically contacted polarizing beam splitter cubes resulting in high transmission as compared to other available isolators. The TORNOS Compact's industry-leading high transmission results in more photons for your application. This allows diodes to be run at lower currents extending diode lifetime. The compact design makes it highly suitable for OEM integration.

FEATURES

- High transmission
- Extends the life of your diode
- Compact design

OPTIONS

- Optional waveplate for manipulation of polarization
- Mounting Clamp Available
- Customization available

APPLICATIONS







- Raman Spectroscopy
- DNA Sequencing
- Imaging
- Environmental Sensing
- Mapping
- Microscopy
- 3D Metrology
- Protecting pump lasers in amplified systems
- Cold Atom



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AVAILABLE MODELS

Model	Product	Wavelengths
	2 mm VIS Isolator	532 nm
	4 mm VIS Isolator	532 nm
	2 mm NIR Isolator	633 nm and 785 nm
	4 mm NIR Isolator	633 nm and 785 nm
	2 mm NIR+ Isolator	850 nm
	4 mm NIR+ Isolator	850 nm

SPECIFICATIONS

Standard Wavelength	Spectral Range	Tunable Temperature	Isolation ^a	Transmission ^a	Forward Power Handling
532 nm	527 nm to 537 nm	10 °C to 30 °C	>33 dB	>93%	5 W
633 nm	628 nm to 638 nm	10 °C to 30 °C	>33 dB	>93%	5 W
785 nm	780 nm to 790 nm	10 °C to 30 °C	>33 dB	>93%	5 W
850 nm	845 nm to 855 nm	10 °C to 30 °C	>33 dB	>93%	5 W

Product specifications are subject to change. All products are RoHS compliant.

^aAt specified wavelength and temperature

NOTE: For non-standard wavelengths, contact EOT for more information.