

# TORNOS Compact

## Faraday Rotators and Isolators – 532 nm to 850 nm

The Coherent TORNOS Compact Faraday rotators and isolators are designed for wide-ranging end applications where optical feedback can adversely affect laser performance. The TORNOS Compact provides 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 devices deliver industry-best laser reliability and performance. The TORNOS Compact covers a variety of wavelengths in the VIS and NIR. A range of devices is available which allow for optimal isolation and transmission at specific wavelengths, depending on the model, and within the spectral bandwidth of the device. 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.

The 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

Available Models	
Product	Wavelength
2 mm VIS Isolator	532 and 633
4 mm VIS Isolator	532 and 633
2 mm NIR Rotator	785
2 mm NIR Isolator	785
4 mm NIR Isolator	785
4 mm NIR + Isolator	850

Specifications					
Standard Wavelength (nm)	Spectral Range (nm)	Tunable Temperature (°C)	Isolation (dB)	Transmission (%)	Forward Power Handling (W)
532	522 to 542	10 to 30	≥33	≥92	5
633	628 to 638	10 to 30	≥33	≥95	5
785	780 to 790	10 to 30	≥33	≥95	5
850	845 to 855	10 to 30	≥33	≥95	5

Notes:

Other wavelengths available upon request.