

## Description

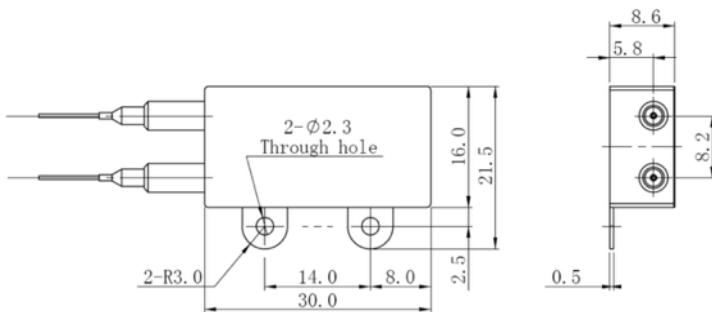
The TWR30 is an Athermal Fabry-Perot Interferometer Etalon consisting of an advanced opto-mechanical design hermetically packaged to yield premium wavelength stability. Used as wavelength reference in the calibration of Optical Spectrum Analyzers, Tunable Lasers, Tunable Filters, Chemical Analysis Systems, and Optical Sensing Systems.

The TWR30 Etalon is terminated with single-mode (SM) fiber for easily interfacing to optical instruments or to other optical components. The precision athermal packaging yields excellent wavelength stability despite changes in temperature or humidity. Standardized at 25GHz channel spacing, but also available in a wide range of other optical specifications. Designed to make handling and installation fast, easy and intuitive. It delivers the many advantages inherent to all optical devices.

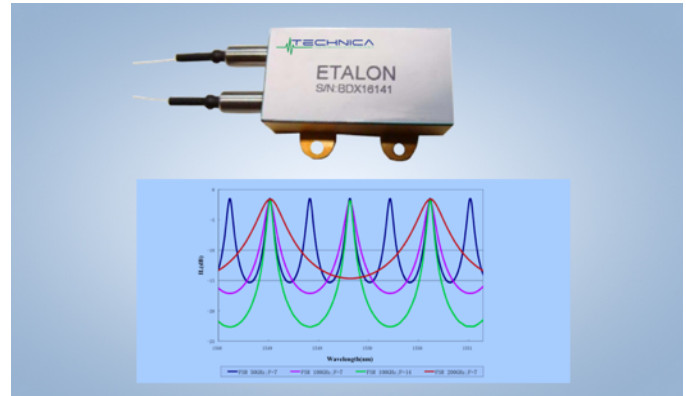
Widely used in optical test and monitoring instruments, the TWR30 is well fit for telecom systems, for medical and pharmaceutical applications, and for optical sensing applications in security, robotics, civil & geotechnical engineering, oil & gas, aerospace, railways, roadways, performance gear, marine vessels & racing yachts, wind turbines and structures, pipelines, nuclear facilities, industrial processes, and for research laboratories worldwide.

## Key Features

**Premium Wavelength Stability, Low Insertion Loss & PDL.** Hermetically packaged and self temperature compensated.



**Field Proven and easy to install:** The TWR30 Athermal FBG has been in production for several years and continues to receive excellent customer feedback. The device pigtailed are on the same side for easy handling and fiber routing. Side screw pads allow for easy installation. Well suited for projects that include the need for a stable wavelength reference device as a stand alone component, or to be used in tandem with absolute wavelength reference devices such as gas cells. The TWR30 is a rugged low-cost Athermal Packaged Etalon with stable operation for highly accurate long-term use. Also available in TWR90 Calibration Box.



Parameter	Specifications
Wavelengths	1525 to 1625 nm, also available for L Band
FSR, Finesse	25GHz, 7 also at 50, 100, 200 GHz
BW (FWHM)	< 4 GHz
Contrast	> 14 dB
Insertion Loss	< 4 dB
Back Reflection	> 20 dB
PDL, PD Accuracy	0.1 dB, +/- 0.1 GHz
Max Optical Power	500 mW
Thermal Stability	< +/-0.8 GHz, from -5°C to 70°C
Storage Temperature	-40°C to +85°C
Device Dimensions	30x16x8.6mm plus fiber protection booths and screw holders (see dwg)
Fiber Type, Protection	SMF28e, 900um tube
Pigtails Termination	1m +/- 0.1m
Fiber Bend Radius	>17mm
Optical Connectors	FC/APC, LC/APC, other options available

## Applications in Communications, Test and Measurement Instruments, and Research.

Technica undertakes a rigorous development process before products release. The company is also firmly committed to continuous improvements after release to insure performance to the highest standards, hence, specifications are subject to update without notice.

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