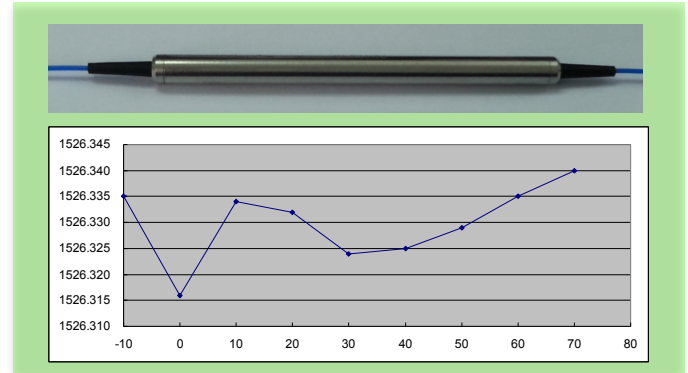


## Description

The T95 is a Wavelength Reference consisting of a Fiber Bragg Grating (FBG) encapsulated in a package that contains advanced materials effective at providing passive temperature compensation by matching the coefficient of temperature expansion (CTE) of the FBG's fiber.

The T95 FBG is embedded in single-mode (SM) fiber. Typically, when changes of temperature occur and the fiber FBG expands, the center wavelength of the FBG shifts as well. In the case of this Athermal Packaged FBG, the compensation material bonded to and surrounding the FBG fiber shrinks proportionally to the expansion of the FBG fiber to yield a passively temperature compensated FBG device. Our precision athermal packaging yields excellent wavelength stability over the temperature range of interest. Available in a wide range of optical specifications.

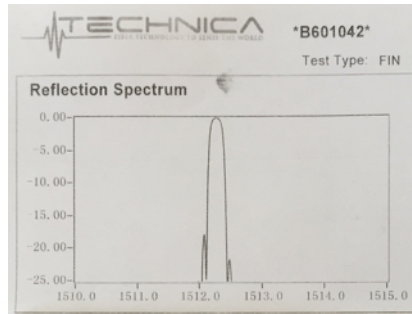
The T95 FBG is designed to make handling and installation fast, easy and intuitive. It delivers the many advantages inherent to all FBG based devices.



FBGs manufactured and sold by Technica under International License from United Technologies, Inc

## Key Features

**Temperature Stability and Low Insertion Loss.** The precision made FBG written into the fiber is packaged together with the compensating material by using carefully selected bonding materials to yield a low-loss, stable & reliable device used industrially.



**Wide Range of Optical Specifications.** Originally designed for 50Gz and 100GHz telecom channel spacing, since Technica specializes in the development and production of Fiber Bragg Gratings, availability has now expanded to a wide range of FBG optical specifications in the T95 athermal package. 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 T95 is a rugged low-cost Athermal Package FBG with stable operation for highly accurate long-term use. Inquire with us about custom packaging for integration into customer designs.

**Proven field performance.** The T95 Athermal FBG has been in production for several years and continues to receive excellent customer feedback. Currently installed in various applications with practically no returns since its initial release.

Parameter	Specifications
Wavelengths / Tolerance	1530 to 1625 nm, +/-0.5; 980, 1060, 1310nm, other
Reflection BW (FWHM)	> 0.2nm
Insertion Loss	< 0.2 dB
SLSR	> 15 dB
PDL	< 0.1 dB
Thermal Stability	< 0.08 nm , from -5°C to 70°C
Fiber Type	SMF28 and compatibles
Fiber Coating	Acrylate
Device Dimensions	Dia: 6.5mm , Length: 64 mm
Storage Temperature	-40°C to +85°C
Fiber Pigtail Length	1 m, other options
Fiber Bend Radius	>17mm
Optical Connector	FC/APC, or custom

## 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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