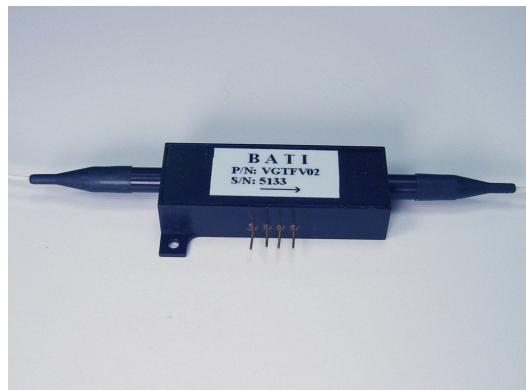


# **Equinox™ Variable Gain Tilt Filter**

*Solid-state, High-speed Gain Equalization and Tilting*

Boston Applied Technologies' Variable Gain Tilt Filter (VGTF) is designed for dynamically compensating the gain tilt profile in Erbium Doped Fiber Amplifiers (EDFAs) and power tilt in multi-channel wavelength division multiplexing (WDM) systems. Based on OptoCeramic® technology, VGTF enables dynamically flattening or tilting the broadband signal in a real-time fashion. BATI's VGTF contains no moving parts and offers high speed, low insertion loss, low polarization dependence loss (PDL), and a wide dynamic range. BATI's advanced micro-optical design also enables the integration of the static gain flattening filter (GFF) and other components into one compact and robust package for space, cost saving and performance enhancement.



## **Features**

- Precise, high-speed, real time gain control
- Excellent optical performance
- Low cost, flexible integration
- All solid-state construction in a compact package

## **Applications**

- Dynamic gain tilt adjustment
- EDFA

## Key Optical Specifications

Attributes <sup>1,2</sup>	Performance
Wavelength Range	1525-1565 nm, 1570- 1610 nm
Insertion Loss	<1.0 dB
Dynamic Tilt Range	$\pm 4$ dB <sup>3</sup>
Response	< 30 $\mu$ s
Polarization Dependent Loss	< 0.15 dB <sup>4</sup>
Polarization Mode Dispersion	< 0.05 ps
Slope Resolution	Continuous
Input Power	< 500 mW
Return Loss	$\geq 55$ dB
Dimensions	36.6 x 16 x 8 mm
Operating Temperature Range	0°C to 70°C
Storage Temperature Range	-40°C to 85°C

### Notes:

1. Unless otherwise specified, all measurements are at 25°C.
2. Meets or exceeds Telcordia GR1221 and GR1209 specifications.
3. Up to 10 dB tilting achievable, 20 dB tilting also available upon request.
4. Measured at  $\pm 4$  dB tilting.

## Contact Information

For more information about BATi's leadership in dynamic gain equalization technology and other fiber optical modules and components, visit our website at [www.bostonati.com](http://www.bostonati.com).

To obtain additional technical information or to place an order for this product, please contact us at:

Phone: 1-781-935-2800  
Fax: 1-781-935-2860  
E-mail: [sales@bostonati.com](mailto:sales@bostonati.com)