

Equinox™ Dynamic Gain Flattening Filter

Solid-state, High-speed Gain Equalization and Tilting

Boston Applied Technologies' Dynamic Gain Flattening Filter (DGFF) is designed for dynamically reshaping the gain curve over the whole band in Erbium Doped Fiber Amplifiers (EDFAs). DGFF also tilts the power in multi-channel wavelength division multiplexing (WDM) systems. Based on OptoCeramic® technology, DGFF enables dynamically flattening or tilting the broadband signal in a real-time fashion. BATi's DGFF contains no moving parts and offers high speed, low insertion loss, low polarization dependence loss (PDL), and a wide dynamic range. BATi's DGFF has multi sinusoidal filters. Each sinusoidal filter is a building block that has harmonic frequencies, variable amplitude, and variable phase.



The combination of multi stages with real time control can form any smooth curve represented by sum of furrier curves. It has a compact and robust package for space efficiency, 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

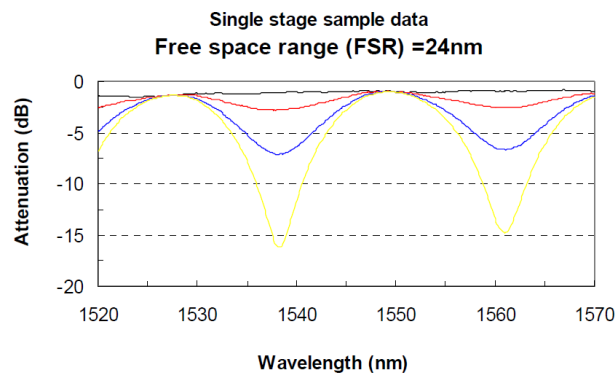
- Dynamic gain curve reshaping
- EDFA

Key Optical Specifications (single sinusoidal filter)

Attributes ^{1,2}	Performance
Wavelength Range	1525-1565 nm
Insertion Loss	<1.0 dB ³
Dynamic (DR)	>20 dB
Response	< 100 μ s
Polarization Mode Dispersion	< 0.1 ps
Slope Resolution	Continuous
Extinction Ratio	>22dB (PM pigtail)
Input Power	< 300 mW
Return Loss	\geq 55 dB
Dimensions	68.5 x 11 x 10 mm
Operating Temperature Range	10°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. Insertion loss increase 0.5dB for each additional stage.



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.

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

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