



PRODUCT BULLETIN

OEM GAIN FLATTENING FILTER



Description

CiDRA provides custom gain flattening filters on an OEM basis that reduce nonuniform gain variation inherent with optical fiber amplifiers. These filters operate over a wide wavelength range, to cover either the entire EDFA C-Band or L-Band. Based on Bragg grating technology, these devices leverage CiDRA's proprietary waveguide platform technology to deliver filters with exceptional stability and performance. CiDRA's flexible, yet scalable, manufacturing process allows for the fast prototyping of devices tailored to specific customer profiles, and a rapid design to production cycle time. This process yields high-volume, repeatable products that deliver superior and uniform performance.

Features

- Passive athermal operation over C- or L-Band
- Exceptional wavelength and amplitude stability
- Precise tailoring of filter function to customer profiles
- Low excess loss
- Short period Bragg grating technology
- Compact package, standard fiber pigtails

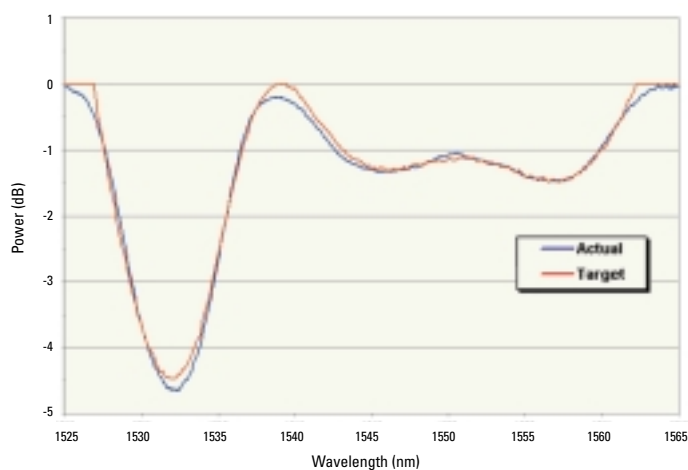
Applications

- Both C- and L-Band EDFA gain flattening
- Long haul and ultra-long haul DWDM transmission
- Undersea systems

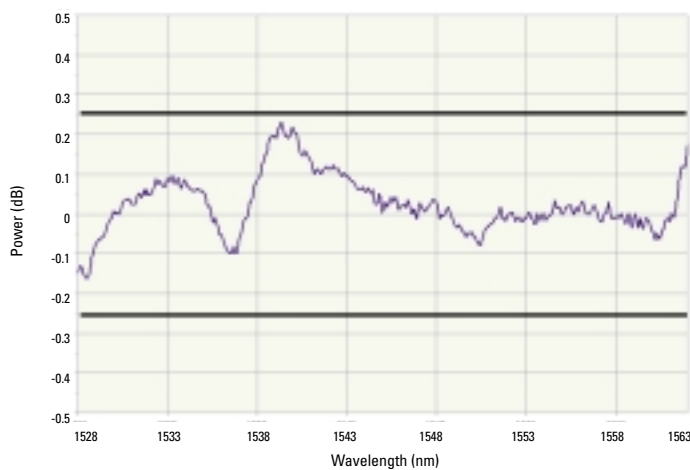
Standards

- Compliant with Telcordia GR-1209 and GR-1221 requirements

GEF Transmission Spectrum



GEF Error Function



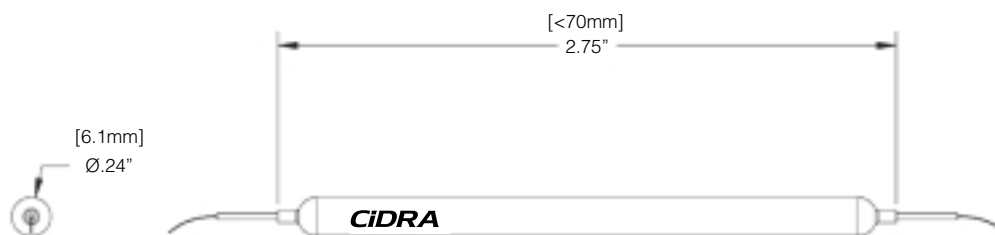
CUSTOMER WORKSHEET

OEM GAIN FLATTENING FILTER

Please fill in your custom product specifications below:

PARAMETER	STANDARD SPECIFICATION	COMMENTS
Filter Profile	Customer Specified	
Wavelength Range	1525-1562nm, 1569-1605nm	
Error Function	±0.5dB max across band over operating temperature range	Tighter tolerances available, consult factory
Excess Loss	<1.0dB	
PDL	<0.2dB	
λ Temperature Dependence	<0.5pm/°C	Tighter tolerances available, consult factory
Operating Temperature Range	-5°C to +70°C	Extended range available, consult factory
Optical Interface	1.0m 250um buffered fiber (SMF 28 or equivalent)	FC-PC/APC and E2000 connectors available
Standards	Compliant with Telcordia GR-1209 and GR-1221 requirements	

Mechanical Drawing



Fax completed worksheet along with your filter profile and custom specifications to CiDRA Customer Service. For direct inquiries or additional information on CiDRA's products, call (203) 265-3307 or e-mail us at salesandmarketing@cidra.com.

Name: _____

Attention:

Company: _____

CiDRA Customer Service

Title: _____

(203) 294-4211 fax

Address: _____

City: _____ State: _____ Zip: _____

Phone: _____

Fax: _____

E-mail: _____

All information contained herein is believed to be accurate and is subject to change without notice. No responsibility is assumed for its use. Specifications are preliminary and CiDRA Corporation reserves the right to make changes, without notice, to product designs, specifications, functions, components, and manufacturing methods.

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