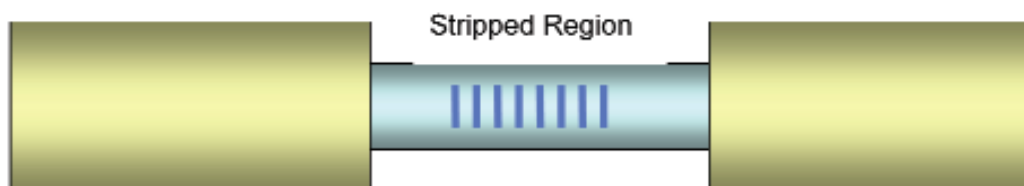


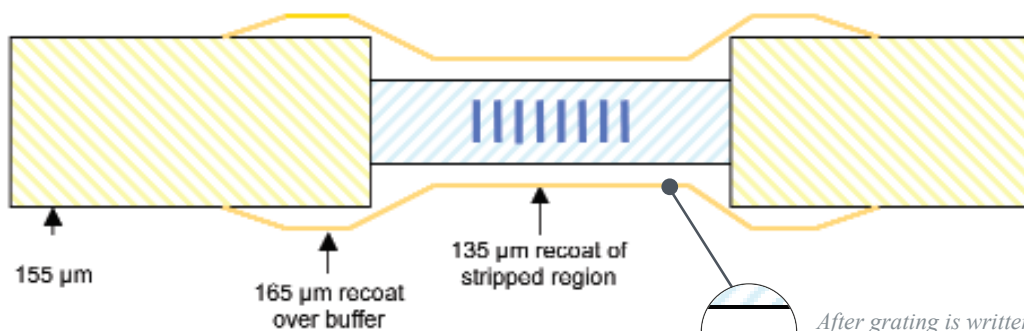
Bragg Gratings in Polyimide Coated Fiber

OFS PYROCOAT™ polyimide coating enables the use of optical fibers in harsh environments. Polyimide is a heat-resistant polymer that performs to 300°C and has high strength, abrasion- and chemical-resistance. Applied to a thickness of only 15 μm , the result is a small form factor fiber of 155 μm diameter.

OFS now offers fiber Bragg gratings in polyimide coated fiber. A grating is a selective wavelength filter in the core of an optical fiber that is used to measure strain or temperature. Extending our gratings technology to include polyimide coated fibers will benefit applications such as oil and gas sensing, structural sensing, industrial processing or avionics sensing.



In grating fabrication the coating is stripped so that Bragg grating exposure can occur



After grating is written, the stripped region is recoated with polyimide. Recoat span includes the non-stripped buffer to either side of the grating to ensure reliable coverage.

CUSTOM PRODUCTS

Worksheet

Fiber Bragg Gratings



A Furukawa Company

Custom Grating Worksheet

Use this worksheet to specify custom fiber Bragg gratings or array. When you have made your specifications, please fax this worksheet to: (860) 674-8818. A representative will call to discuss your gratings requirements.

Optical Parameters

Fiber type required _____

Center Wavelength _____ nm with
± tolerance of _____ nm

Bandwidth
_____ nm with
± tolerance of _____ nm
@ level: transmission _____ dB
Reflection _____ dB

% Reflectivity Value _____ :
Peak _____
Minimum _____
Average _____

To ask questions related to this worksheet or OFS's Gratings capabilities, please contact our facility in:

- Avon, Connecticut
1-860-678-0371 ext. 6520
1-888-438-9936 toll free
(USA and Canada only)
Fax 1-860-674-8818
- or by email inquiry to:
crc7@ofsoptics.com

OFS Specialty Photonics Division

55 Darling Drive, Avon, CT 06001
25 Schoolhouse Road, Somerset, NJ 08873
Priorparken 680 DK-2605 Broendby, Denmark

www.SpecialtyPhotonics.com

Crosstalk requirements on reflection

_____ dB @ _____ nm

Maximum insertion loss per grating

_____ dB

Maximum loss per array

_____ dB

Measurement Wavelength _____ nm

Dimensional Parameters

Length of grating _____ mm with
± tolerance of _____ mm

Maximum Recoat Outer Diameter _____ μm
with ± tolerance of _____ μm

Maximum Recoat Length _____ mm with
± tolerance of _____ mm

Positional Dimensions
of Gratings and Tolerance: _____

Testing Parameters and Packaging Requirements

Proof Test Level for Individual Gratings
& Final Array _____ kpsi

Test Data to be Provided:

Marking Requirements:

When you have made your specifications and completed your contact information below, please Fax this worksheet to: **1-860-674-8818**

Name: _____

Title: _____

Company: _____

Address: _____

Phone: _____

Email: _____