

Apodized FBG

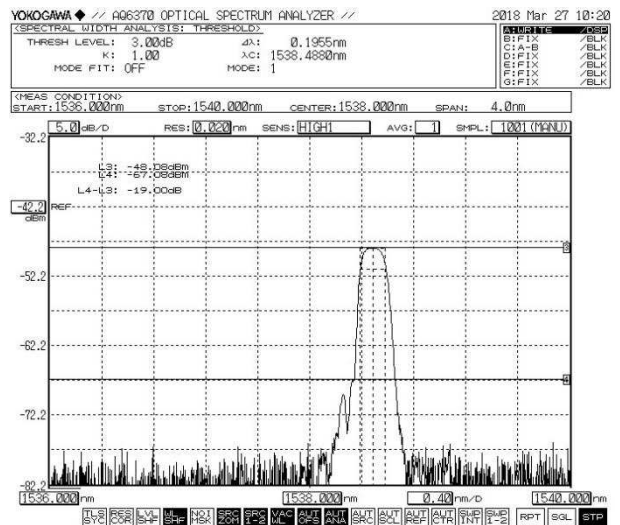
Apodized FBG is a wavelength-reflecting optical device produced by ultraviolet light and phase mask inscription on the optical fiber. It is a basic optical fiber sensing element and is widely used in the fields of optical communication and sensing. AtGrating adopts advanced production technology and Apodized technology to mass produce FBG of various wavelengths in the C+L band, with precise center wavelength, stable performance, high reflectivity, and small 3dB bandwidth.

Key Features

- High stability and reliability
- Length customized grating
- Apodized

Applications

- Structural health monitoring
- Energy monitoring
- Bio-Medical sensing



Specifications

Parameter	Unit	Value			
Center Wavelength	nm	1460 ~ 1610			
FBG Profile	--	Apodized			
Wavelength Tolerance	nm	+/-0.5			
FBG Length	mm	3	5	10	15
Reflectivity	%	≥70	≥75	≥90	≥90
Bandwidth (FWHM)	nm	≤0.7	≤0.7	≤0.3	≤0.3
SLSR	dB	≥10	≥10	≥15	≥15
FBG Recoating	--	None, Acrylate, Polyimide, or custom			
Tensile Strength	kpsi	>100			
Fiber Type	--	Single-Mode			
Fiber Coating	--	Acrylate, Polyimide, or custom			
Pigtail Length	m	Standard 1m both ends, or custom			
Optical Connector	--	Bare Fiber, FC/APC, SC/APC, or custom			
Operating Temperature	°C	Acrylate Single-Mode fiber: -40 ~ +120; Polyimide Single-Mode fiber: -40 ~ +300			