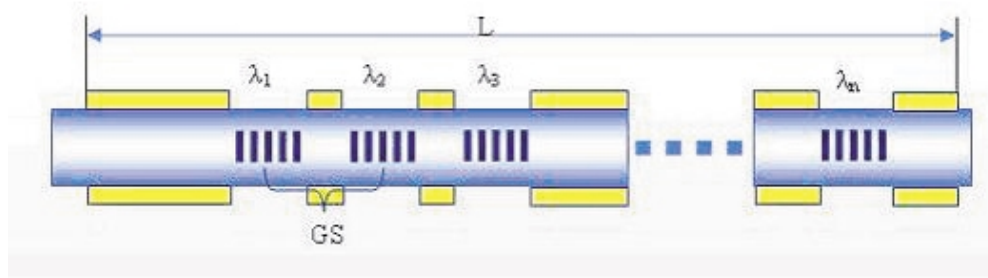


FBG Arrays

Alxenses's FBG array is produced using advanced fabrication technique to write many FBGs in a single strand of optical fiber without any splicing points. The mechanical strength of Alxenses's FBG arrays is therefore significantly better than FBG arrays produced by slicing many FBGs together. The high quality FBG array with customized wavelength and spacing allow distributed measurement over long distance. FBG arrays are particular suitable for large-scale sensing in strain, temperature or pressure monitoring in oil, gas, civil engineering, aviation and marine industries.



Features

- Low Insertion Loss
- Spliceless FBG array
- Customized FBG array configuration
- Accurate FBG wavelength and reflectivity

Applications

- Large-scale strain and temperature monitoring in oil, gas, civil engineering, aviation and marine industries.

SPECIFICATIONS

FBG Arrays

Parameters	Values				Units
Wavelength Range	1510~1590				nm
Wavelength Tolerance	±0.5				nm
FBG Length	3	5	10	15	mm
Reflectivity	>70	>75	>90	>90	%
Bandwidth at 3dB	<0.7	<0.7	<0.3	<0.3	nm
Side Lobe Suppress Ratio (SLSR)	>10		>15		dB
Mini. Spacing	10				mm
Spacing Accuracy	<5				mm
Recoating	Acrylate / Polyimide				--
Proof Test	>100				Kpsi
Fiber Type	SMF-28e or Polyimide fiber				--
Fiber Termination	Bare Fiber, FC/UPC, FC/APC				--
Pigtail length from FBG	1m / Customized length				m
Operating Temperature	Acrylate -5~+80; Polyimide -40~+300				°C
Storage Temperature	Acrylate -40~+80; Polyimide -40~+300				°C