

## 1550nm SM Apodized Fiber Bragg Grating String

1550nm SM Apodized Fiber Bragg Grating String is a new FBG product, it can write multiple grating regions into a single fiber, the grating regions quantity can be customized, each grating region will reflect one specific wavelength. It's widely used for long-distance multi-point detection system, the parameter can be customized upon request.

### Application:

Fiber Optic Sensor  
WDM System  
Wavelength Filter  
Lab And Research

### Features:

Low Insertion Loss  
Multiple Grating Regions  
Reflectivity Optional  
High Realibility & Stability

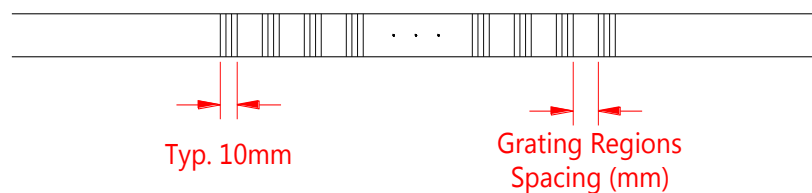


### Specification:

| Parameter              | Symbol    | Value                               | Unit |
|------------------------|-----------|-------------------------------------|------|
| Center Wavelength      | $\lambda$ | 1510-1590                           | nm   |
| Tolerance              |           | $\pm 0.2$                           | nm   |
| Min. Reflectivity      |           | 90                                  | %    |
| Max. 3dB Bandwidth     |           | 0.2                                 | nm   |
| Min. SMSR              | SMSR      | 15                                  | dB   |
| Grating Regions Length |           | 2, 3, 4, 5, 6, 8, 10, 15 or specify | mm   |
| Min. Tensile Strength  |           | 100                                 | kpsi |
| Fiber Type             |           | SMF-28e Fiber                       | -    |
| Recoating              |           | UV Cured Acrylate                   | -    |
| Operating Temperature  | T         | -20~75                              | °C   |
| Storage Temperature    | T         | -40~85                              | °C   |
| Package Dimension      |           |                                     | mm   |

Notice: Above specifications are tested at center wavelength without connector in room temperature @23°C.

### Drawing:



### Ordering Information (Part Number):

| SAFBGS- <b>WWW</b> - <b>CC</b> - <b>SS</b> - <b>SS</b> - <b>RR</b> - <b>FF</b> - <b>LL</b> - <b>CC</b> |                    |                 |                         |              |              |                      |              |
|--|--------------------|-----------------|-------------------------|--------------|--------------|----------------------|--------------|
| <b>WWW</b>   | <b>CC</b>          | <b>SS</b>       | <b>SS</b>               | <b>RR</b>    | <b>FF</b>    | <b>LL</b>            | <b>CC</b>    |
| First Channel Wavelength   | Wavelength Channel | Channel Spacing | Grating Regions Spacing | Reflectivity | Fiber Type   | Fiber Length (Total) | Connector    |
| 1510 - 1510nm  | 02 - 2 channels    | 01 - 1nm        | 10 - 10mm               | 10 - 10%     | S2 - SMF-28e | 05 - 0.5m            | NE - None    |
| 1530 - 1530nm  | 03 - 3 channels    | 05 - 5nm        | 20 - 20mm               | 90 - 90%     | GD - G652D   | 08 - 0.8m            | FA - FC/APC  |
| 1550 - 1550nm  | 04 - 4 channels    | 10 - 10nm       | 50 - 50mm               | SS - Specify | GA - G657A   | 10 - 1.0m            | FU - FC/UPC  |
| 1570 - 1570nm  | 05 - 5 channels    | 20 - 20nm       | 100 - 100mm             |              | GB - G657B   | 15 - 1.5m            | SA - SC/APC  |
| SSSS - Specify   | 10 - 10 channels   | SS - Specify    | 200 - 200mm             |              | SS - Specify | 20 - 2.0m            | SU - SU/APC  |
|  | SS - Specify       |                 | SS - Specify            |              |              | SS - Specify         | LA - LC/APC  |
|  |                    |                 |                         |              |              |                      | LU - LC/UPC  |
|  |                    |                 |                         |              |              |                      | SS - Specify |