

FBG Reflector (1650nm)

FBG reflectors for FTTX applications are reflective filters integrated in the LC or SC adapters, which reflect 1650nm maintenance wavelength and transmit all other telecommunication wavelengths. They can be used to monitor live network utilizing OTDR operating at 1650nm. FBG reflectors are currently considered the best way of implementing real time end-to-end (OLT to ONT) monitoring of optical layer in live FTTX networks. AtGrating FBG Reflector is based on FBG technology to reflect OTDR test signal. Following with mass production of mono-directional 1650nm reflectors, we has been capable of making bi-directional 1650nm reflectors in high performance.

Key Features

- Low Insertion Loss
- High Reflectivity
- Easy Installation
- Compatible with GPON, EPON, GEAPON

Applications

- PON network
- OTDR testing
- Central Office Terminal
- FTTX



Specifications

| Parameter | Unit | Monodirectional | | Bidirectional | |
|-------------------------------|------|----------------------------------|------|---------------|-----|
| | | Min. | Max. | Min. | Max |
| Pass band wavelength range | nm | 1260~1625 | | | |
| Reflect band wavelength range | nm | 1644.50~1655.50 | | | |
| IL(1260~1360nm&1460~1600nm) | dB | | 1.4 | | 1.4 |
| IL(1600nm~1625nm) | dB | | 3.4 | | 3.4 |
| IL(REFLECT BAND) | dB | 21 | | 21 | |
| RL(1260~1360nm&1460~1581nm) | dB | 35 | | 35 | |
| RL(1581nm~1620nm) | dB | 30 | | 30 | |
| RL(1620nm~1625nm) | dB | 20 | | 20 | |
| RL(REFLECT BAND) | dB | 0 | 1 | 0 | 1.4 |
| PDL(1260nm~1600nm) | dB | ≤0.4 | | | |
| Ripple(REFLECT BAND) | dB | ≤0.6 | | | |
| TDL(1260nm~1600nm) | dB | ≤0.5 | | | |
| Operation Temperature | ℃ | -20~+65 | | | |
| Relative Humidity | %RH | 5~95 | | | |
| Connector | | SC/APC or LC/APC Attenuator Type | | | |