

## Features:

- 4 Channel GPON + XGS-PON+ 1550nm + OTDR Coexistence Module
- 1550nm Channel: 1540nm - 1560nm
- GPON Channel: 1260nm - 1280nm
- XGS-PON Channel: 1260nm - 1280nm
- OTDR Channel: 1600nm - 1670nm
- Channel Spacing: 100GHz
- Maximum Optical Power: 300mW
- Connector Type: LC/APC
- Reliability: Telcordia GR-1209, GR-1221
- Operating Temperature: -40 to 85°C
- Storage Temperature: -40 to 85°C
- Dimensions: 70mm x 70mm x 8mm
- 500mm Fiber Pigtaills



## 1. Optical Requirements

| Parameter                           | Value   |
|-------------------------------------|---------|
| Passband Ripple (Max.)              | ≤ 0.5dB |
| Isolation, GPON (Min.)              | ≥ 30dB  |
| Isolation, XGS-PON - DWDM (Min.)    | ≥ 30dB  |
| Isolation, OTDR (Min.)              | ≥ 30dB  |
| Isolation, X1550nm (Min.)           | ≥ 30dB  |
| Return Loss (Min.)                  | ≥ 45dB  |
| Directivity - DWDM Ports (Min.)     | ≥ 50dB  |
| Polarization Dependent Loss (Max.)  | ≤ 0.3dB |
| Polarization Mode Dispersion (Max.) | ≤ 0.2ps |

## 2. Insertion Loss

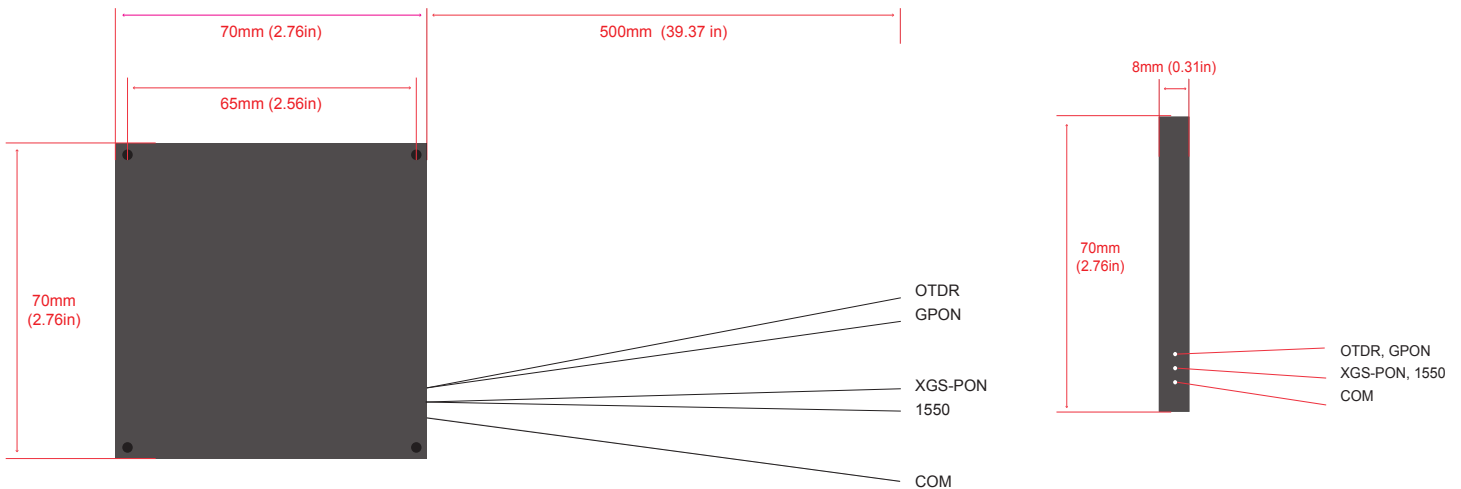
| Parameter                              | Value   |
|--|---------|
| GPON Channel Insertion Loss (Max.)     | ≤ 1.3dB |
| XGS-GPON Channel Insertion Loss (Max.) | ≤ 1.6dB |
| OTDR Channel Insertion Loss (Max.)     | ≤ 1.0dB |
| 1550nm Channel Insertion Loss (Max.)   | ≤ 1.9dB |

## 3. Network Diagram



| Channel | Typical | Max |
|---------|---------|-----|
| OTDR    | 0.8     | 1.0 |
| GPON    | 1.1     | 1.3 |
| XGS-PON | 1.4     | 1.6 |
| 1550    | 1.6     | 1.9 |

## 4. Mechanical Diagram



## 5. Ordering Information: Module

| Part Number                 | Description  |
|-----------------------------|--|
| ZS-DW1-D14GXOLA-1550WB-0-.5 | OSP 4 CH SFM, GPON, XGSPON, OTDR, 1550 Wideband, 70mm x 70mm x 8mm, 900um 0.5M LC/APC Connectors |

## 6. Contact Information

Tel: 800.590.9535

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