



# 1.3/1.55 Splitter/Combiner

## WDM-15

### Product Overview

The 3 port splitter/combiner is 3 port filter module based on the cutting-edge thin film filter technology which divides 1.3  $\mu\text{m}$  band and 1.55  $\mu\text{m}$  band with low insertion loss and high isolation as well as long term stability and reliability.



### Features

- Low loss, low PDL
- High channel isolation
- Compact size for system integration
- Telcordia GR-1221 qualified
- RoHS compliant



### Applications

- CATV, Access Networks
- CWDM, Band split

### Dimensions Unit [mm]



# Typical Performance

| Parameter                          | Unit |       |            |
|------------------------------------|------|-------|------------|
| Thermal Stability (Wavelength)     | Typ. | nm/°C | 0.005      |
| Directivity                        | Min. | dB    | 45         |
| Return Loss                        | Min. | dB    | 45         |
| Polarization Dependent Loss (PDL)  | Max. | dB    | 0.15       |
| Polarization Mode Dispersion (PMD) | Max. | ps    | 0.1        |
| Optical Power                      | Max. | dBm   | 23         |
| Operating Temperature              | -    | °C    | -5 to +70  |
| Storage Temperature                | -    | °C    | -40 to +85 |

# Filter Specifications

| Parameter                           | Unit |    |              |
|-------------------------------------|------|----|--------------|
| 1.3m Pass Band (-0.5 dB Bandwidth)  | Min. | nm | 1260-1360    |
| 1.55m Pass Band (-0.5 dB Bandwidth) | Max. | nm | 1460-1610    |
| Flatness                            | Max. | dB | 0.5          |
| Insertion Loss                      | Min. | dB | 1.0          |
| Adjacent Channel Isolation          | Min. | dB | 40           |
| Insertion Loss of Reflect Channels  | Max. | dB | 0.5          |
| Reflect Channel Isolation           | Min. | dB | 15 (Typ. 18) |

\*1 All parameters are specified over operating temperature range.  
\*2 Insertion loss per filter includes Ripple and PDL, without connectors.  
\*3 Please contact santec to discuss specific performance requirements.

# Ordering Code

