



SMD-20-200

DWDM Mux/Demux

Strand Mounted Module for 200 GHz

Key Features

- Low Insertion Loss
- Extended Temperature Range
- Passive, Athermal Operation
- Flat-Top Spectral Response
- Weather Proof, Strand Mount Enclosure

Applications

- HFC DWDM Networks
- Outside Plant Deployment
- Optical Node Splitting
- Analog and Digital Transmission



Product Overview

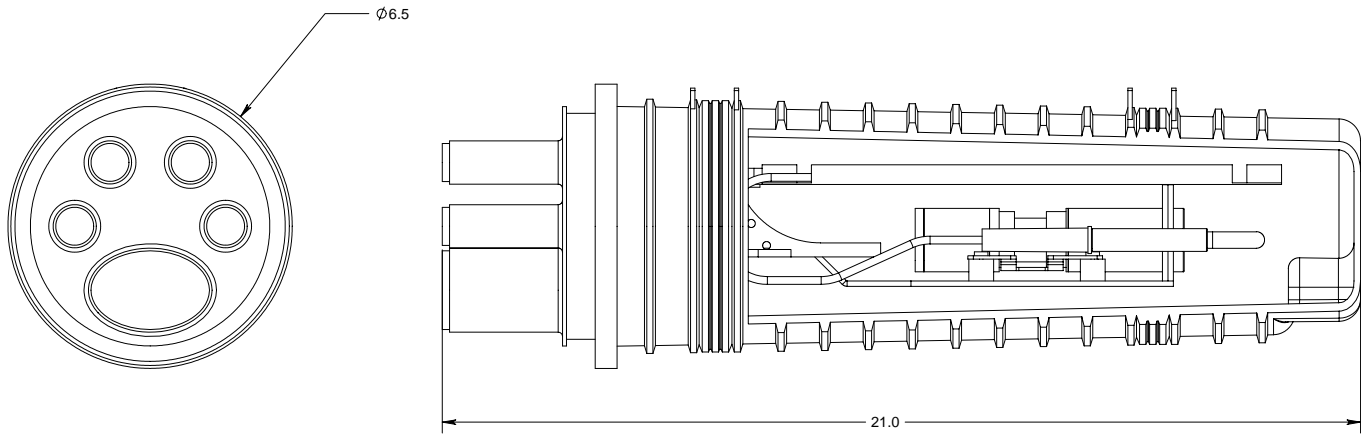
The SMD-20-200 is the ideal DWDM Mux/Demux solution for outside plant applications, which is capable of extreme operating temperatures and protected by an industry-standard closure. This product is targeted at applications like overlaying new business services on existing dark fiber and overbuilding in dense, high real estate value areas, where indoor installation is expensive. Using the combination of the SMD-20-200 and the LGX-20-200, MSOs can economically deploy up to twenty dedicated wavelength channels in any direction, over the existing fiber and save up to \$20,000 per mile over new fiber installation. After initial installation of the SMD-20-200, subsequent upgrades will not require any service interruption. Our acclaimed free-space diffraction grating technology gives the SMD-20-200 Mux/Demux industry-leading insertion loss, flat-top spectral response, and athermal operation - all in a weather proof, strand mounted housing.

Product Specifications

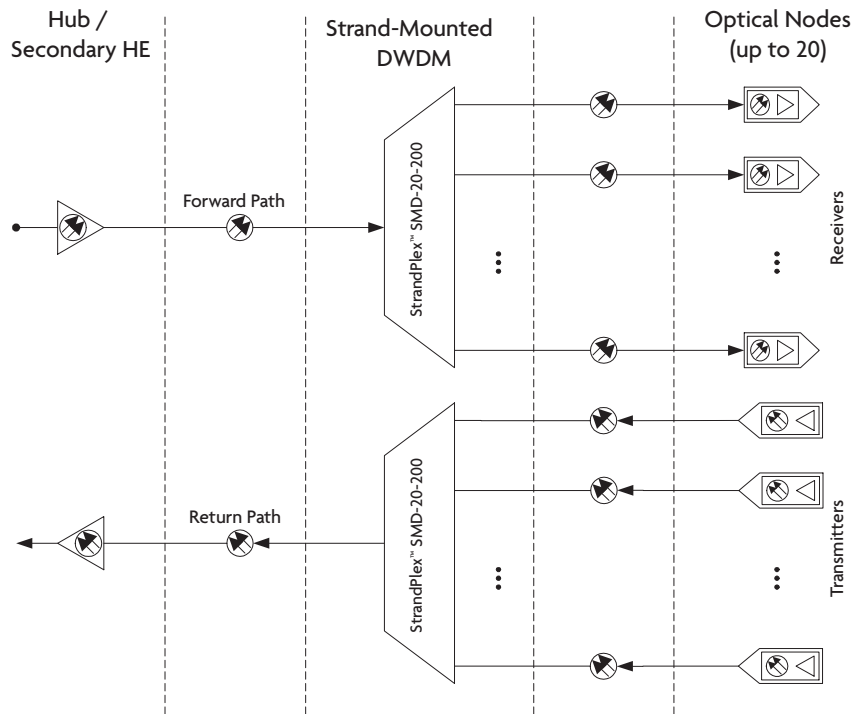
(Valid over full temperature range, within specified passband, across all channels and polarizations)

Channel Count	16 or 20	Typical Insertion Loss (IL)	3.0 dB
Channel Spacing	200 GHz	IL Uniformity Across All Channels	≤1.0 dB
Channel Plan	Customer specified on ITU Grid, C- or L-Band	Ripple	≤0.5 dB
Filter Shape	Flat	Adjacent Isolation	≥27 dB
0.5-dB Filter Width	0.52 nm	Non-adjacent Isolation	≥35 dB
Channel Passband	0.33 nm	Polarization Dependent Loss (Typ.)	<0.35 dB
Operating Temperature Range (passive athermal design)	-40 to +70 °C	Optical Return Loss	>40 dB
Enclosure	Industry standard FOSC	Chromatic Dispersion	<5 ps/nm
Weight (Appr.)	7 lbs	Polarization Mode Dispersion	<0.1 ps/nm

Mechanical Drawing (All dimensions in inches)



Application Example (Optical node splitting)



Specifications subject to change without notice. Rev. 10/04
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