

18CH CWDM Mux Demux

The CWDM multiplexer/demultiplexer launched by Guangzhou Sintai Communications Co., Ltd. is designed for economical and efficient multi-wavelength CWDM network applications. It is based on thin film filter (TFF) technology and operates on ITU grids with 20nm channel spacing. The CWDM wavelength ranges from 1270 to 1610 nm, and supports at most 18 channels of optical signal multiplexing/demultiplexing. It has a series of advantages, such as multi-kind of packaging structures, low insertion loss, high channel isolation and so on.

Product Feature

- Low insertion loss (IL)
- High channel isolation
- High stability and reliability
- Provide 1 to 18 channels with compact design
- Conform to ITU-T G.694.2
- Conform to Telcordia GR-1209-CORE-2001 standard
- Conform to Telcordia GR-1221-CORE-1999 standard
- Conform to RoHS-6 (no lead)

Application Area

- CWDM system
- CATV system

Applications

- Maximizes fiber in local loop applications
- Overlays CWDM with existing 1310 nm transmission systems
- Provides bidirectional transmission on a single fiber
- Supports linear (bus) add/drop architectures
- Supports hub-and-spoke ring architectures

Compliance

- ITU-T G.694.2 and G.695
- GR-1221 Issue 3 and 1209
- RoHS compliant 6/6

Product specification

Item	CWDM MUX/DEMUX					
	1	2	4	8	16	18
Channel number	1	2	4	8	16	18
Operating wavelength (nm)	1260~1620					
Center wavelength (nm)	ITU-T Grid					
Channel spacing (nm)	20					
Channel insertion loss (dB)	≤0.8	≤1.2	≤1.8	≤2.6	≤4.5	≤5.0
Channel bandwidth (dB)	ITU±6.5					
Flatness (dB)	≤0.5					
Adjacent channel isolation (dB)	≥30					
Non-adjacent channel isolation (dB)	≥40					
Return loss (dB)	≥50					
Directivity (dB)	≥55					
Polarization-dependent loss (dB)	≤0.2					
Polarization mode dispersion (ps)	≤0.2					
Power Handling (dB)	≤500					
Operating Temperature (°C)	0~+70					
Storage Temperature (°C)	-40 ~+85					
Package type	Steel tube, ABS box, LGX standard box, 1U standard 19 inch rack					