

CWDM, 4-Channel MUX / DEMUX



Application

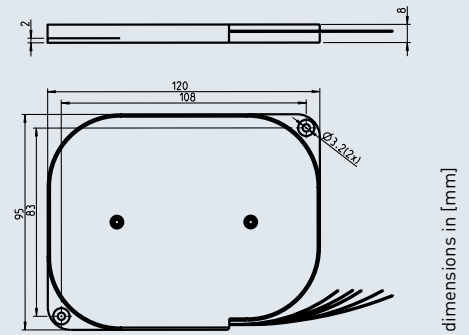
- Demultiplexing (or multiplexing) of 4 CWDM channels



Features

- 20 nm channel spacing
- High channel isolation, low insertion loss
- Compact package, robust design
- Full ITU-T C- and L-band available
- Wide operating temperature range 0°C to +70°C
- Epoxy free lightpath
- Tested to Telcordia GR-1221-CORE
- Customization possible

CWDM, 4-Channel MUX / DEMUX Technical Specifications



Parameter

Number of Channels	4	
Central Wavelength	1510, 1530, 1550, 1570	
Channel Passband [nm]	± 6	
Insertion Loss, typ., w/o Connector [dB]	2.0	
Insertion Loss, max., w/o Connector [dB]	2.3	
Isolation (adjacent channels) [dB]	MUX > 20	DEMUX > 25
Isolation (non-adjacent channels) [dB]	MUX > 30	DEMUX > 40
Directivity [dB]	> 60	
Optical Return Loss [dB]	> 40	
Passband Flatness (Ripple) [dB]	< 0.5	
Channel Uniformity (@ Central Wavelength) [dB]	< 1.5	
Polarization Dependent Loss [dB]	< 0.1	
Polarization Mode Dispersion [ps]	< 0.1	
Thermal Stability (insertion loss) [dB/°C]	< 0.006	
Thermal Wavelength Drift (TWD) [pm/°C]	0.7 < TWD < 2.5	
Optical Power (max.) [mW]	250	
Tensile Load (max.) [N]	5	
Operating Temperature [°C]	0 to +65	
Storage Temperature [°C]	-40 to +85	
Fiber Type	900 micron, tight buffer	
Fiber Length [m]	1.0 ± 0.1	
Package Dimension [mm]	120 x 95 x 8	

Wavelength Table (Ordering Example)

Full Part Number (for DEMUX with MU connector)	Central Wavelength
DF-DC4-B005-MU-0000	1510, 1530, 1550, 1570

Ordering Information

DF -	C	4	-	B	0	0	5	-			-	0	0	0	0
DF: Dielectric Filter				B: Package 'B'											
D: DEMUX				0: CWDM											
M: MUX				05: 1510 nm, 1530 nm, 1550 nm, 1570 nm											
C 4: 4 channel CWDM				Other wavelengths on request											
									None = 00						
									MU/PC = MU						
									LC/PC = LC						
									SC/PC = SC						
									Other connectors on request						
														Std. Spec.	

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