

DWDM, 400 GHz, 8-Channel MUX / DEMUX



Application

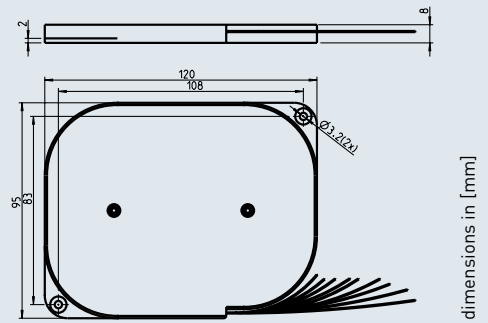
- Demultiplexing (or multiplexing) of 8 DWDM channels, spaced 400 GHz.



Features

- 400 GHz 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

DWDM, 400 GHz 8-Channel MUX / DEMUX Technical Specifications



Parameter

Number of Channels	8	
Channel Spacing [GHz]	400 (3.2 nm)	
Central Wavelength	C- and L-band, ITU-T Grid	
Channel Passband [nm]	± 0.4	
Insertion Loss, typ., w/o Connector [dB]	3.5	
Insertion Loss, max., w/o Connector [dB]	4.0	
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]	< 0.007	
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)	Start ITU channel	Start Wavelength (nm)	DEMUX / MUX Channels
DF-D08-B421-MU-0000	21	1560.61	21, 25, 29, 33, 37, 41, 45, 49
DF-D08-B431-MU-0000	31	1552.52	31, 35, 39, 43, 47, 51, 55, 59

Ordering Information

DF - 0 8 - B 4 - - 0 0 0 0	
DF: Dielectric Filter	
D: DEMUX	
M: MUX	
0 8: 8 channel	
B: Package 'B'	
4: 400 GHz spacing	
x x: For the first ITU channel	
L-Band on request	
None = 00	
MU/PC = MU	
LC/PC = LC	
SC/PC = SC	
Other connectors on request	
	Std. Spec.

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