

DWDM, 100 GHz, 4-Channel MUX / DEMUX



Application

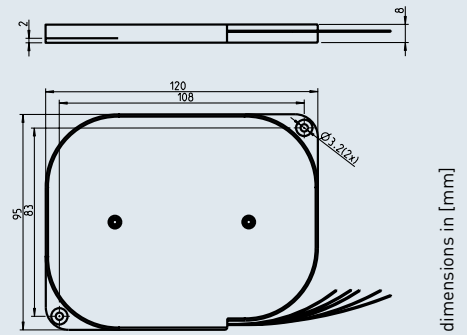
- Demultiplexing (or multiplexing) of 4 DWDM channels, spaced 100 GHz.



Features

- 100 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, 100 GHz, 4-Channel MUX / DEMUX Technical Specifications



Parameter

Number of Channels	4
Channel Spacing [GHz]	100 (0.8 nm)
Central Wavelength	C- and L-band, ITU-T Grid
Channel Passband [nm]	± 0.1
Insertion Loss, typ., w/o Connector [dB]	2.4
Insertion Loss, max., w/o Connector [dB]	3.0
Isolation (adjacent channels) [dB]	MUX > 20
Isolation (non-adjacent channels) [dB]	MUX > 30
Directivity [dB]	> 60
Optical Return Loss [dB]	> 40
Passband Flatness (Ripple) [dB]	< 1.0
Channel Uniformity (@ Central Wavelength) [dB]	< 1.5
Polarization Dependent Loss [dB]	< 0.2
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 +70
Storage Temperature [°C]	-40 to +85
Fiber Type	900 micron, tight buffer
Fiber Length [m]	1.0 $\pm$ 0.1
Package Dimension [mm]	120 x 95 x 8

Ordering Information

DF -	0	4	-	B	1		-		-	0	0	0	0
DF: Dielectric Filter				B: Package 'B'	1: 100 GHz spacing	x x: For the first ITU channel				None = 00			Std. Spec.
D: DEMUX										MU/PC = MU			
M: MUX										LC/PC = LC			
0 4: 4 channel										SC/PC = SC			
										Other connectors on request			

Wavelength Table (Ordering Example)

Full Part Number (for DEMUX with MU connector)	Start ITU channel	Start Wavelength (nm)	DEMUX / MUX Channels
DF-D04-B121-MU-0000	21	1560.61	21, 22, 23, 24
DF-D04-B156-MU-0000	56	1532.68	56, 57, 58, 59