

DWDM

100 GHz / 1 Channel

Features:

- Epoxy-Free Optical Path
- Low insertion loss
- Low Temperature Sensitivity

Applications:

- DWDM System
- Add/Drop Channels
- CATV Fiber Optical Link
- Fiber Amplifier System



Specifications: OPC-DD121-10000

DWDM 100 GHz	Mux (2 To 1)	De-Mux (1 To 2)
Center Wavelength (nm) λ_c	ITU Grid, C-Band & L-Band	
Center Wavelength Accuracy (nm)	$\leq \pm 0.1$	
Channel Spacing (GHz)	100 (0.8 nm)	
Channel Passband (@-0.5dB) (nm)	≥ 0.3	
Channel Insertion Loss 1To 2 (dB)	≤ 1.0	
Express Channel Insertion Loss 1To 3 (dB)	≤ 0.6	
Passband Ripple (dB)	≤ 0.3	
Return Loss (dB)	≥ 50	
Directivity (dB)	≥ 50	
Adjacent Channel Isolation @ $\lambda_c+0.6\text{nm}$ (dB)	≥ 25	≥ 28
Non-Adjacent Channel Isolation @ $\lambda_c+1.4\text{nm}$ (dB)	≥ 35	≥ 35
Express Channel Isolation 1To 3 (dB)	≥ 10	
Insertion Loss Thermal Stability (dB/°C)	≤ 0.005	
Thermal Stability Drift (nm/°C)	≤ 0.0025	
Polarization Dependent Loss (PDL) (dB)	≤ 0.1	
Polarization Mode Dispersion (PMD) (PS)	≤ 0.1	
Maximum Power Handling (mW)	250	
Maximum Tensile Load (N)	5	
Operating Temperature (°C)	-5 to +70	
Storage Temperature (°C)	-40 to +85	
Package Dimension (mm)	5.5(ϕ)x36(L)	

※ 1: Insertion loss does not include connector loss

Dimension:

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