

DWF1 & DWF2 Series

100/200 GHz DWDM

Features

- 100 GHz or 200 GHz Channel Spacing
- High Channel Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path
- Excellent Environmental & Mechanical Stability

Applications

- DWDM System
- Fiber Optic Instrument
- CATV Fiber Optic Link



Performance Specifications

Parameters	DWF1 Series		DWF2 Series		Unit
Center Wavelength	ITU Grid		ITU Grid		nm
Channel Spacing	100		200		GHz
Channel Passband	$\lambda_c \pm 0.11$		$\lambda_c \pm 0.25$		nm
Passband Ripple	≤ 0.5		≤ 0.5		dB
Insertion Loss	≤ 1.3 (1-ch), ≤ 1.6 (2-ch), ≤ 2.8 (4-ch) ≤ 4.5 (8-ch)*, ≤ 6.4 (16-ch)*		≤ 1.3 (1-ch), ≤ 1.6 (2-ch), ≤ 2.8 (4-ch) ≤ 4.5 (8-ch)*, ≤ 6.0 (16-ch)*		dB
Uniformity	≤ 1.0		≤ 1.0		dB
Isolation (adjacent channel)	≥ 15 (Mux)	≥ 25 (Demux)	≥ 15 (Mux)	≥ 25 (Demux)	dB
Isolation (non-adjacent channel)	≥ 20 (Mux)	≥ 30 (Demux)	≥ 20 (Mux)	≥ 30 (Demux)	dB
Insertion Loss Temperature Sensitivity	≤ 0.005		≤ 0.005		dB/°C
Wavelength Temperature Sensitivity	≤ 0.002		≤ 0.002		nm/°C
Polarization Dependent Loss	≤ 0.2		≤ 0.2		dB
Polarization Mode Dispersion	≤ 0.1		≤ 0.1		ps
Return Loss	≥ 45		≥ 45		dB
Directivity	≥ 55		≥ 55		dB
Maximum Power Handling	300		300		mW
Operating Temperature	0 to 70		0 to 70		°C
Storage Temperature	-40 to 85		-40 to 85		°C
Package Dimension	P0 (1-ch): $\varnothing 5.50 \times 30.50$ P1 (2/4-ch): 100 (L) x 80 (W) x 8 (H) P2 (8/16-ch): 120 (L) x 90 (W) x 8 (H)		P0 (1-ch): $\varnothing 5.50 \times 30.50$ P1 (2/4-ch): 100 (L) x 80 (W) x 8 (H) P2 (8/16-ch): 120 (L) x 90 (W) x 8 (H)		mm

* Lower Insertion Loss models are also available. Target parameters are referenced without connectors.

Reliability

Telcordia (GR-1209-CORE) and (GR-1221-CORE). Details provided upon request.

Ordering Information

