

# Thin-Film 200GHz Dense Wavelength Division Multiplexers (DWDMs)

This document proposes the specification of 200GHz Channel Spaced Dense Wavelength Division Multiplexers and Demultiplexers.

## Specifications

(All parameters are referenced without connectors. Typical connector loss 0.25 dB/pair)

Parameters	Specification	Unit
Center Wavelength	ITU Grid (C and L Bands)	nm
Nominal Channel Spacing	200	GHz
Channel Passband	$\lambda_{ITU} \pm 0.25$	nm
Passband Ripple	$\leq 0.5$	dB
Insertion Loss	$\leq 1.0$ (1-ch)	dB
Uniformity	$\leq 1.0$	dB
Isolation (adjacent channel)	$\geq 30$	dB
Isolation (non-adjacent channel)	$\geq 45$	dB
Insertion Loss Temperature Sensitivity	$\leq 0.008$	dB/°C
Polarization Dependent Loss	$\leq 0.1$	dB
Polarization Mode Dispersion	$\leq 0.1$	ps
Return Loss (at Mux/DeMux channels)	$\leq 45$	dB
Directivity	$\leq 55$	dB
Maximum Power Handling	300	mW
Operating Temperature	-5 to 65	°C
Storage Temperature	-40 to 85	°C
Package Dimension	P0 (1-ch): $\varnothing 5.50 \times 35 / \varnothing 5.50 \times 40$ P1 (4-ch): 100 (L) x 80 (W) x 8 (H)* P2 (8/16/20-ch): 120 (L) x 100 (W) x 8 (H)*	mm

\*LGX style enclosures also available. See Section 8 for details.

# P/N Scheme: 100GHz and 200GHz DWDMs

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