

## PRODUCT BRIEF

# DYNAMIC WAVELENGTH PROCESSOR

## DWP 50 Wavelength Selective Switch

### FEATURES

- ▶ Network Systems Ready
- ▶ DPRAM and RS-232 Interface
- ▶ Supports In-Service Firmware Upgrade
- ▶ ROADM or X-Connect Building Block
- ▶ Cascadable Add/Drop Functionality
- ▶ High Degree Interconnect Enabler
- ▶ Advanced Functionality Switch
- ▶ Up to 10 Ports and 80 Channels in C Band
- ▶ Reconfigurable Channel Plan
- ▶ Selectable 50GHz or 100GHz Channel Plan (Option)
- ▶ Mixed 50GHz or 100GHz Channel Plan (Option)
- ▶ Full Dynamic Channel Equalization on All Ports
- ▶ Per Port, Per Channel Power Control over 0-15dB
- ▶ Wide Flat Passband at All Attenuation Levels

### OVERVIEW

The High-Resolution Dynamic Wavelength Processor (DWP) from Finisar enables programmable channel switching and attenuation through the proprietary use of Liquid Crystal on Silicon (LCoS) technology and provides advanced functionality through embedded software

The DWP 50 is a fully integrated intelligent module offering flexible and upgradeable high resolution Wavelength Selective Switch (WSS) functionality for advanced reconfigurable network applications.

Multiple configurations including 9x1 or 4x1 add and 1x9 or 1x4 drop modules are available.

All DWP 50 configurations offer enhanced bandwidth performance and user-selectable 50 or 100 GHz channel spacing.

The programmable liquid crystal matrix technology individually addresses 80/40 channels on a 50/100 GHz grid, each of which can be independently and hitlessly switched to any port with full attenuation control.

Finisar's DWP product family provides a cost competitive solution for WSS applications from the core to the edge of the network

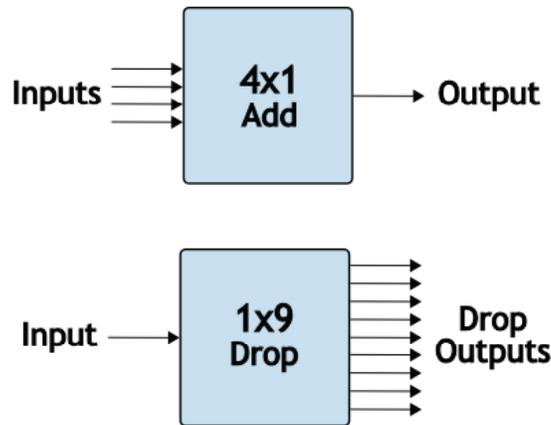


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## OPTICAL PERFORMANCE SPECIFICATIONS

Parameter	Specification		Unit
Number of Ports	5-10		
Frequency Range: C Band	191.40 - 196.30		THz
<b>Channel Spacing</b>	<b>50</b>	<b>100</b>	<b>Unit</b>
Channel Count	80	40	
Clear Passband	± 10	± 30	GHz
Bandwidth: -0.5dB	± 14	± 35	GHz
Bandwidth: -3.0dB	± 20	± 40	GHz
<b>Optical Specifications</b>	<b>Typical</b>	<b>Maximum</b>	<b>Unit</b>
Insertion Loss		6.5	dB
Insertion Loss Uniformity		1.0	dB
PDL	0.25	0.7	dB
Port Isolation (Crosstalk)	≤ -40	≤ -35	dB
Block Extinction	≤ -40	≤ -35	dB
Attenuation Range		15	dB
Attenuation Resolution		0.1	dB
Attenuation Setting Accuracy: 0-10dB		1.0	dB
Attenuation Setting Accuracy: 10-15dB		1.2	dB
<b>Module Specifications</b>			
Module Dimensions	220 x 140 x 40		mm
Power Consumptions (typical)	20		W
Communications Interface	DPRAM, RS-232		
Electrical Interface	FTSH-140-03-L-DV-EP-A		

## SAMPLE CONFIGURATIONS



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