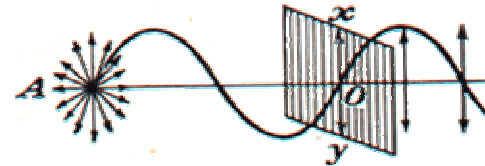
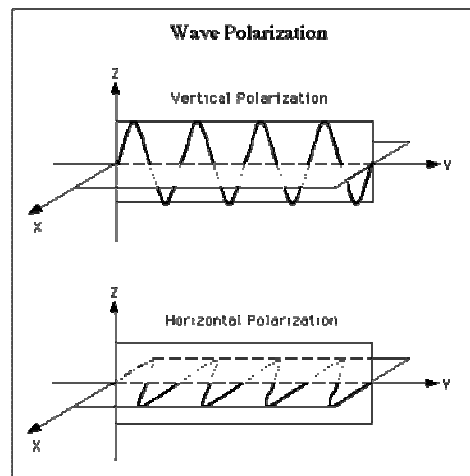
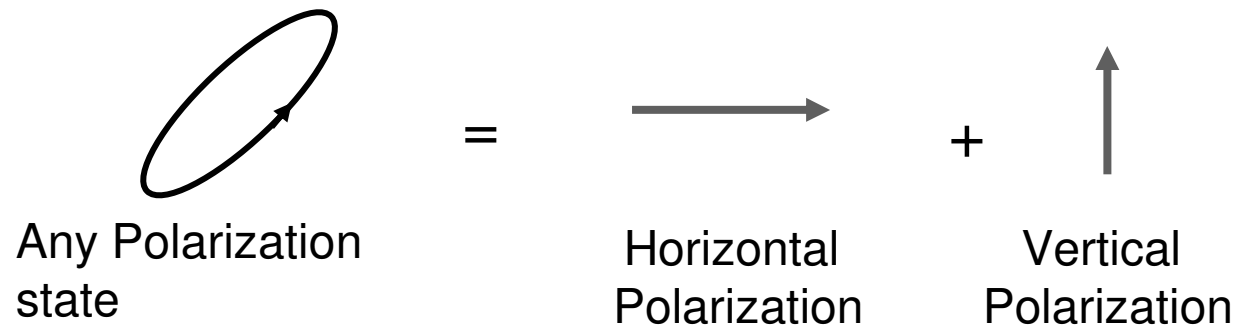


Technology

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Birefringent crystal based polarization control technology. Filtering and switching through polarization control.

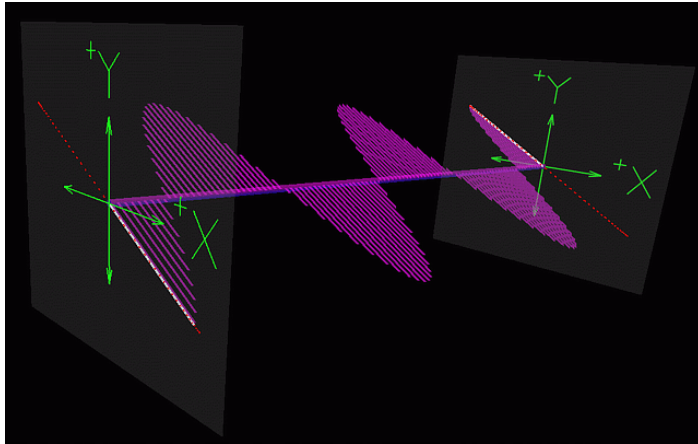


Titan Photonics Proprietary

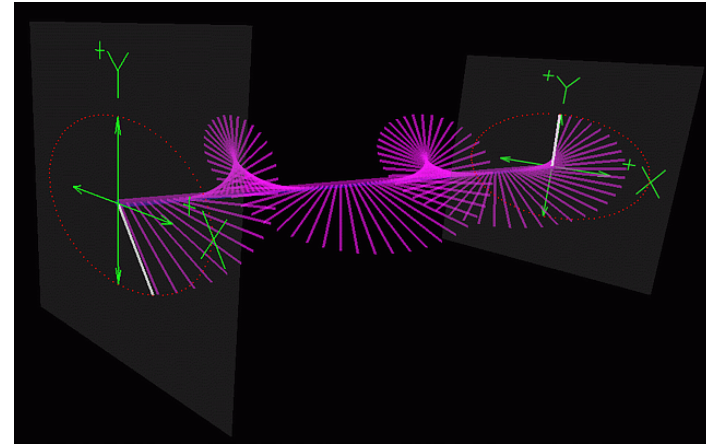
Polarization States

TITAN PHOTONICS, INC

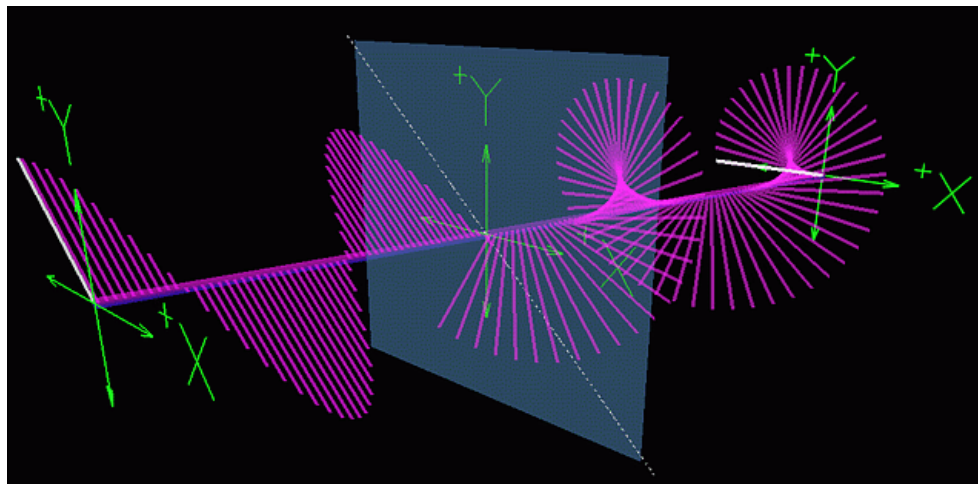
Linear Polarization



Circular Polarization



Polarization Conversion

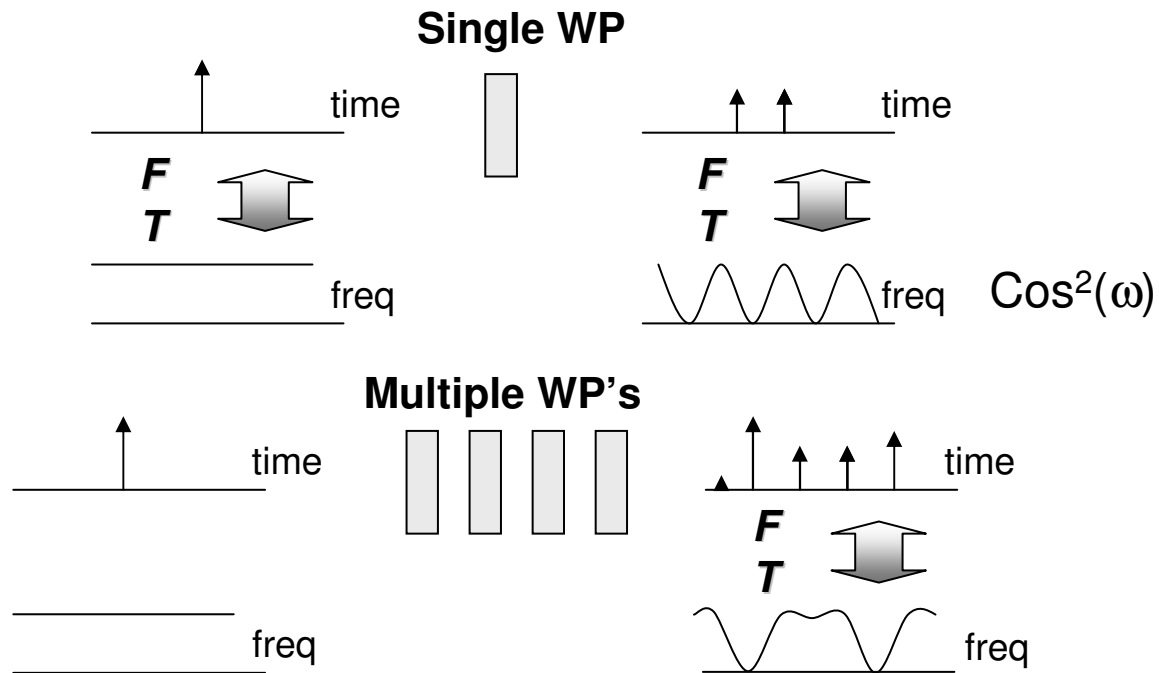


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Polarization Interferometer Filter

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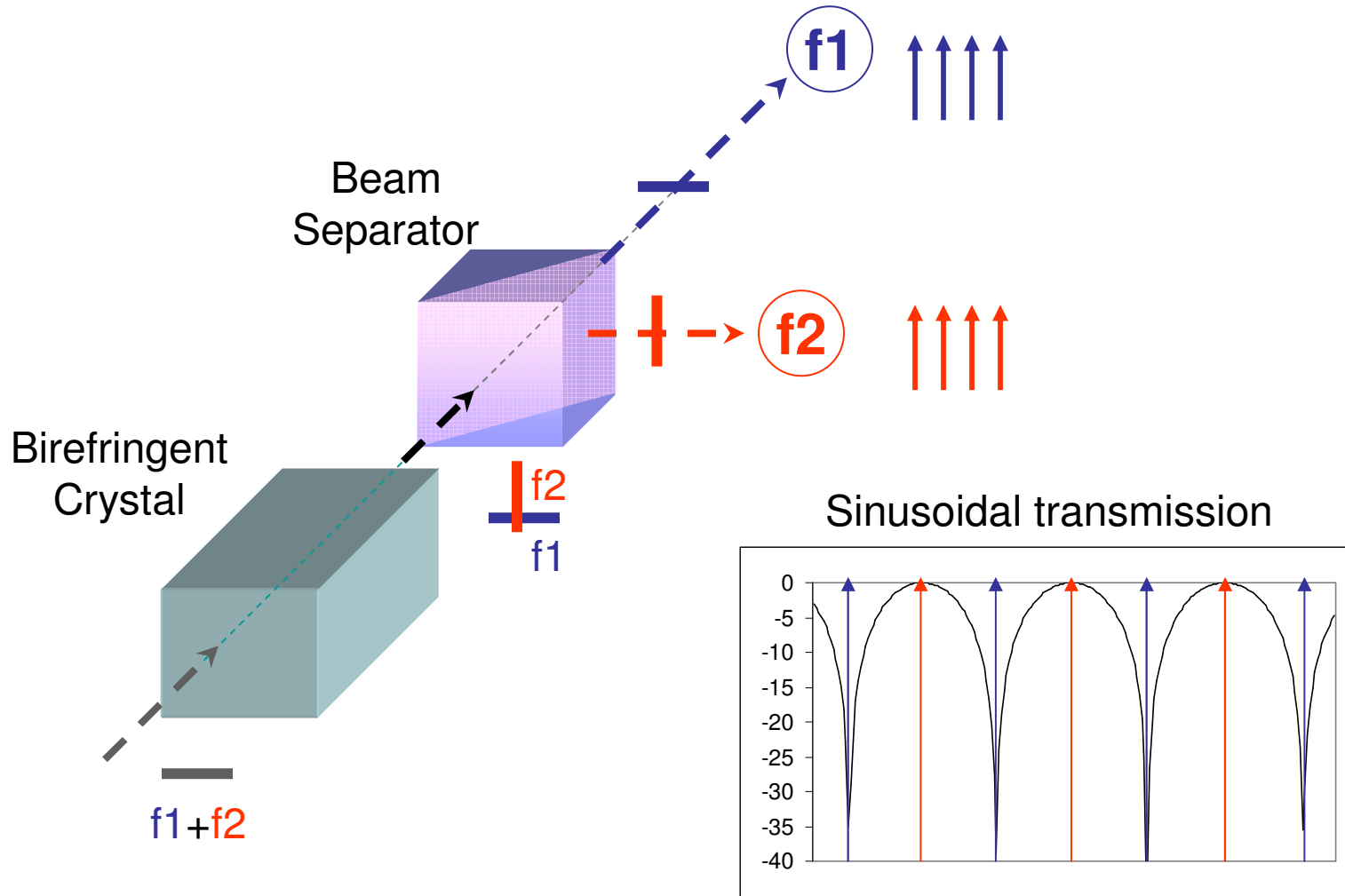
A polarization interference filter consisting of multiple retardation Wave Plates generates an impulse response in the time domain. The Fourier transformation of that impulse response is the transmission spectrum of the filter.



Titan Photonics Proprietary

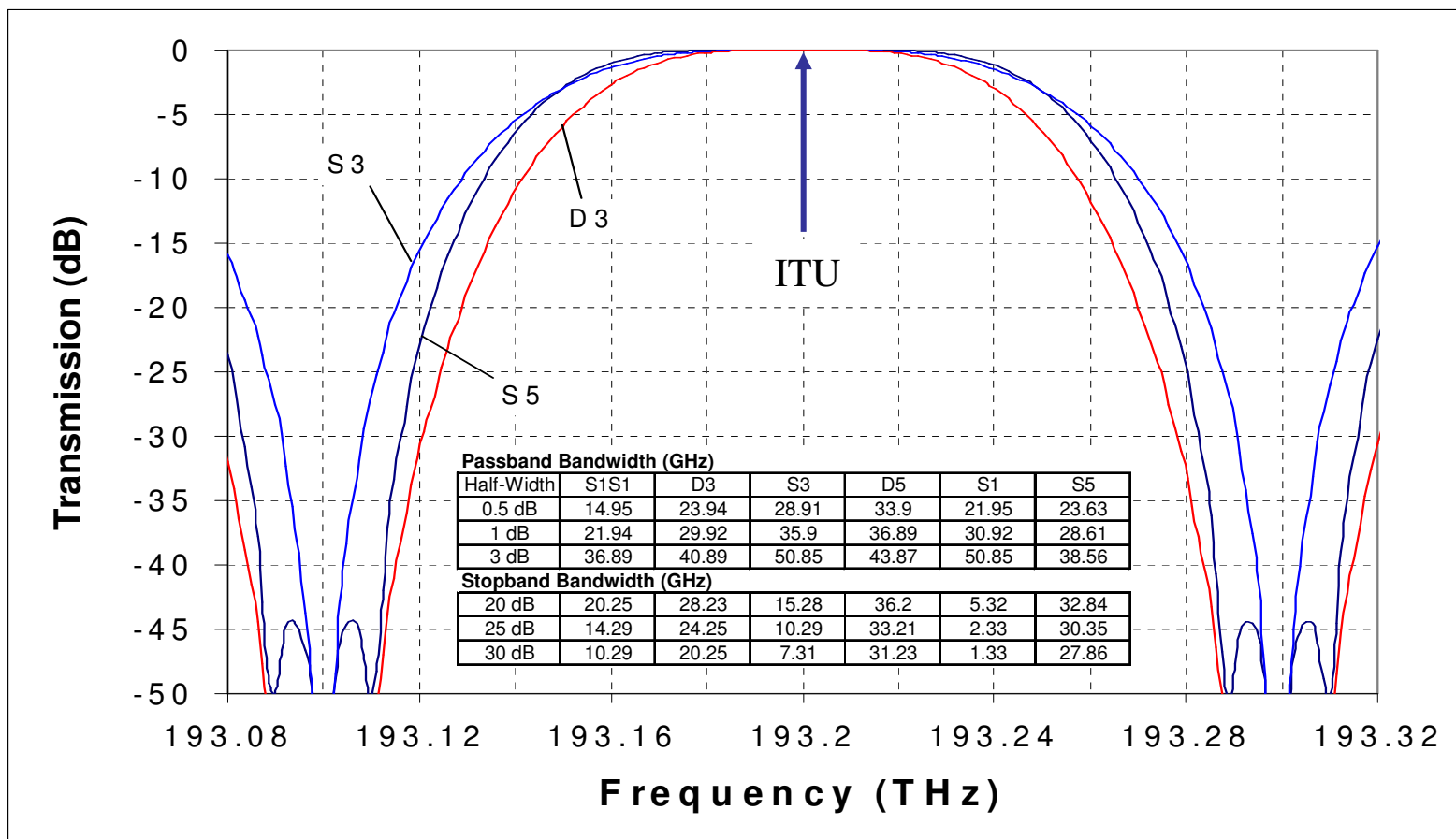
Polarization Filtering-Single WP

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Flexible Filter Profile Design **TITAN PHOTONICS, INC**



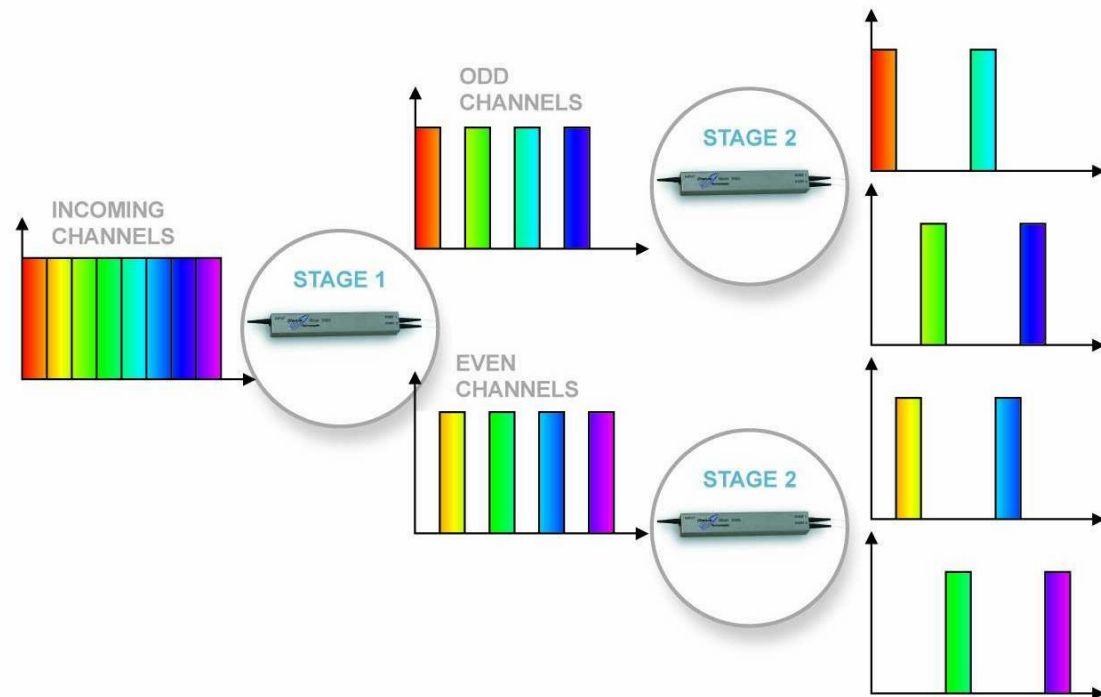
D3-100 Demux; S3-100 Mux

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Flexible Network Concatenation

TITAN PHOTONICS, INC

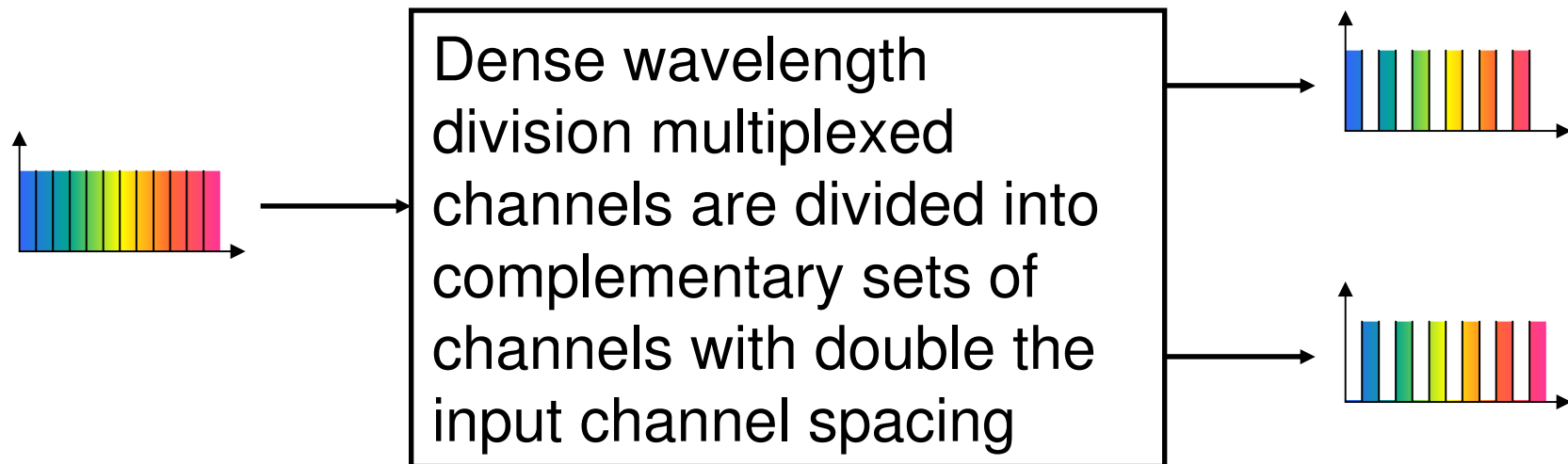
- ✓ Multiple interleaver platforms
- ✓ Fine channel spacing
- ✓ Precision & accuracy
- ✓ Low loss
- ✓ Excellent isolation
- ✓ Low dispersion
- ✓ Modular and scalable



Titan Photonics Proprietary

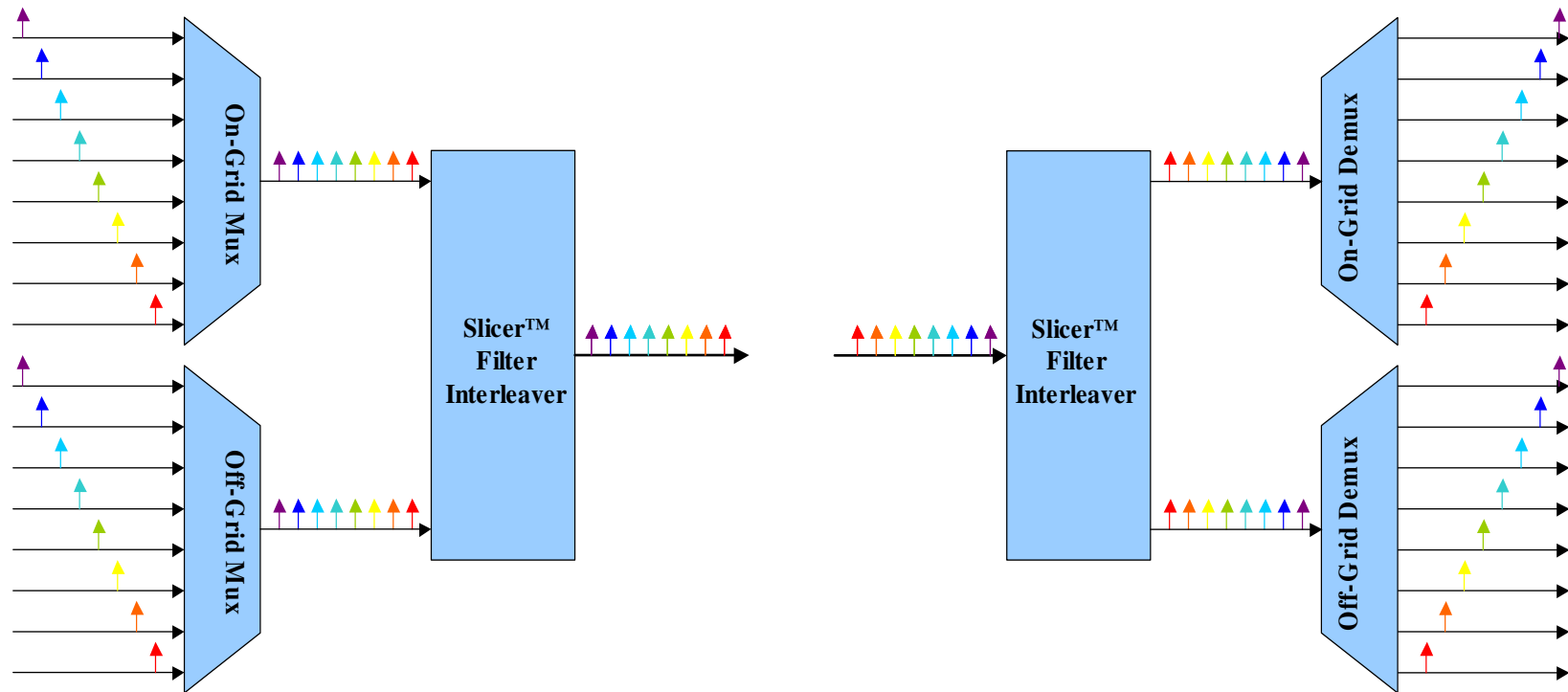
Interleaver Functionality

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Interleaver Applications

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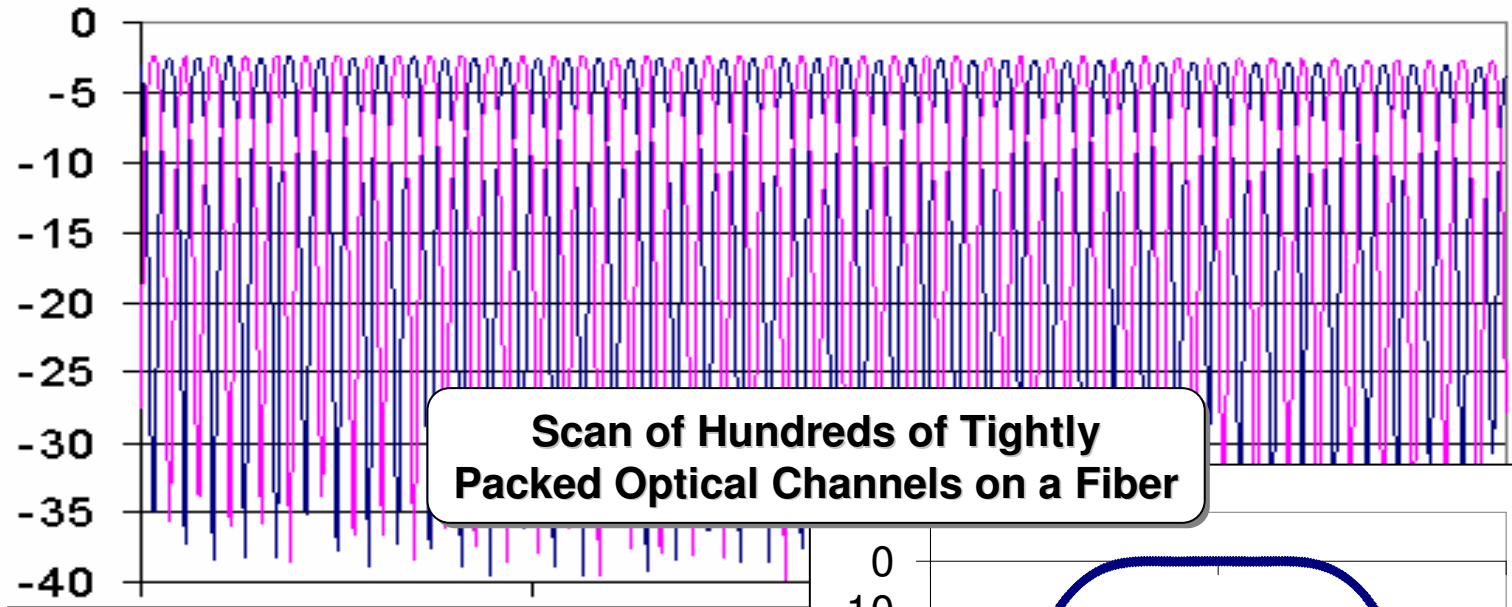


- ✓ From 1 Wavelength (Single Channel Add/drop) to 80+
- ✓ As Densely Packed As 25 GHz Channel Spacing
- ✓ Modularity As Low As 5 Wavelengths at a Time

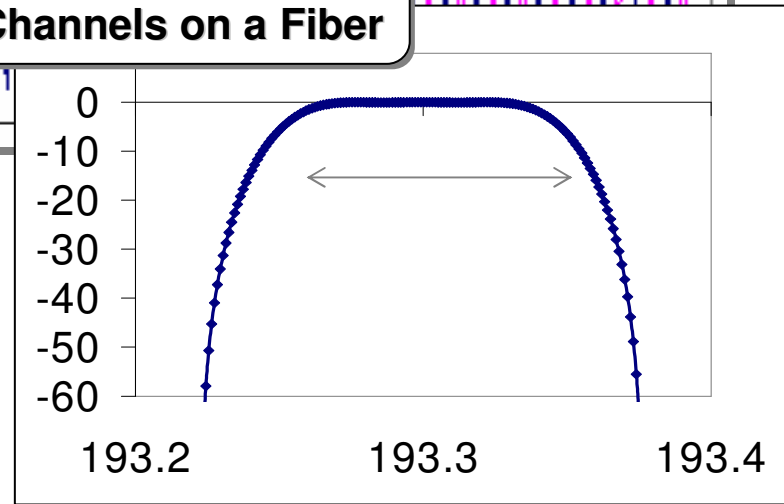
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High-Capacity Interleavers

TITAN PHOTONICS, INC



- ✓ High Density (50Ghz and finer)
- ✓ Very Flat Top Performance
- ✓ Low Loss
- ✓ Excellent Isolation
- ✓ Broadband Operation
- ✓ Modular and Scalable
- ✓ Passive Designs (reliability)



Titan Photonics Proprietary

Summary of the Advantages **TITAN PHOTONICS, INC**

- ✓ Wide passband/stopband design
- ✓ Accurate center wavelength
- ✓ No temperature controller
- ✓ Scalable/Flexible network platform