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PMux Polarization maintaining Multiplexer



Features

- ✓ 19" rack mountable rugged design
- ✓ Flexible Grid application possible
- Autonomous operation
 - ✓ just plug in power
- Windows based GUI allows status control

✓ USB connection

✓ Seamless integration with
CoBrite_{MX} tunable laser chassis

Applications

 ✓ generation of channel grids for DWDM transport testing *PMux* is a polarization maintaining Multiplexer that complements our $CoBrite_{MX}$ tunable laser series.

Stable output polarization of all sources allows for modulation of a channel comb using Mach-Zehnder structures to emulate DWDM spectra.

High channel counts, fixed grid

If your application requires ultra-high channel counts and low insertion loss budged our AWG based multiplexer is the ideal choice. It operates fully autonomous, status info can be retrieved via USB interface.

Low to medium channel counts, flexible grid If a lower channel count is required or a flexible grid structure is needed, PM couplers can be integrated to match your needs.

Using couplers instead of complicated tunable Filters or WSS structures to generate flexible grid scenarios offers cost savings and no effort for configuration of WSS structures while polarization preservation is delivered for free.

Hybrid designs

Both AWG & coupler can be combined in one device to blend advantages of each technology into a single system.

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Optical Performance of AWG based PMux

PM Fiber connection

Optical Parameter	Specification			
	Min	Тур.	Max	Unit
Channel spacing		100		GHz
Insertion loss			6.0	dB
Uniformity across band		1	1.5	dB
Polarization Extinction Ratio	16	20		dB
Number of channels	Customer specified			
Channel Range	Customer specified			
Channel center offset	-0.04		+0.04	nm
3dB Pass band	0.6			dB
Input Connector	FC/APC			
Output Connector	FC/APC			
Optical Fiber	Polarization- maintaining PANDA type Fiber			
	Operating Conditions & Mechanical Parameter			
	Operating Temperature 0 to 50°C, non-condensing			
	Storage Temperature -20°C to 70°C, non-condensi			on-condensing
	Size of device (H x W x D) 150 x 460 x 540mr 4 x 19 x 21 inch			าฑ
Application example	Power Supply	/	100-240 VAC, <1	0W, 47-63Hz
Laser Laser Laser Laser Laser CoBrite _{MX}	Spectrum MZM structure for modulation	λ ^{10dB} Signal out	Contact informat ID Photonics GmbH Anton-Bruckner-Str. 85579 Neubiberg GERMANY Tel.: + 49 (0) 89 – 201 info@id-photonics.co	6 1 899 16 om