

# iMD™-PD INTEGRATED MUX/DEMUX WITH POWER MONITORING

APSPL planar optical splitters/couplers are developed based on Enablence Technologies' patented CVD process. The high performance silica waveguides exhibit low insertion loss and low polarization dependent loss (PDL) over a wide wavelength range. The small footprint allows for a compact package. Additionally, the silicon substrate serves as an assembly platform to integrate with other active or passive optical devices.



## BENEFITS

- Number of channels can be 16 to 96
- Channel spacing can be 200, 100, 50 GHz
- Optional VOA for channel and band balancing
- Optional switch for dynamic load balance at add/drop nodes
- Optical connectors: MPO, LC, FC, SC, etc.
- Electrical interface: RS-232, I2C, DPRAM

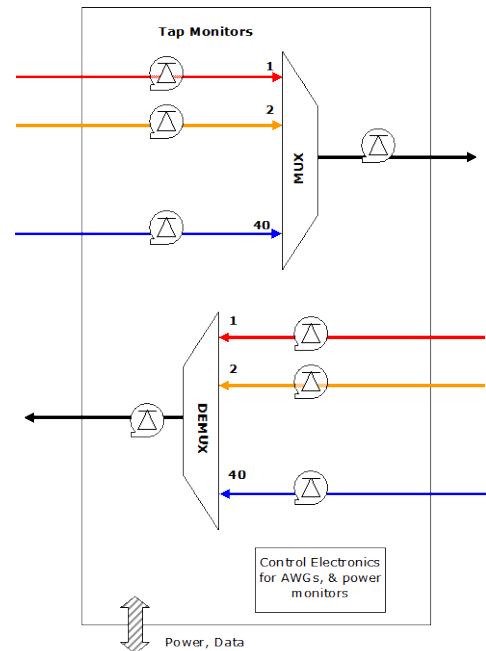
## FEATURES

- Power monitoring at each channel
- Mux and DeMux inside single module
- Small size
- Gaussian, flat-top, semi-top multiplexing & demultiplexing
- Control electronic interfaces, I2C, RS232, DPRAM
- Optional VOA and switch
- Customizable design

## APPLICATIONS

- Long haul DWDM
- Metro DWDM
- CWDM networks
- Optical Ethernet networks

Parameter	Unit	iMD40100-PD
Number of Channels	ch	40
ITU Spacing	GHz	50, 100, 200GHz
Insertion Loss	dB	6.0
Adjacent channel Crosstalk	dB	25
Non-Adjacent channel Crosstalk	dB	34
Total Crosstalk	dB	22
Polarization Dependent Loss (PDL )	dB	0.5
Polarization Mode Dispersion (PMD)	ps	0.5
Chromatic Dispersion (CD)	ps/nm	+/-15
Return Loss	dB	40
Group Delay Ripple	ps	4
Directivity	dB	50
Wavelength Accuracy, 3dB	GHz	+/-4
Bandwidth, 0.5dB	GHz	37
Bandwidth, 1dB	GHz	50
Bandwidth, 3dB	GHz	70
Power Monitoring Input Range, Mux	dBm	-20 to +15
Power Monitoring Input Range, DeMux	dBm	-30 to +3
Power Monitor Accuracy	dB	+/-0.5
Drive Voltage	V	5
Module Dimensions	mm	220x135x31
Storage Temperature Range	°C	-40 ~ +85
Operating Temperature Range	°C	-5 ~ +70



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