

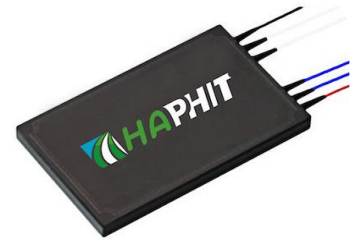
## DWDM Multi-Channel Mux/Demux Module for Pulse Power

### FEATURES

- ▣ High Isolation
- ▣ Low Insertion Loss
- ▣ Epoxy-Free Optical Path
- ▣ High Reliability and Stability
- ▣ Low Profile Packaging

### APPLICATIONS

- ▣ Broadband Systems
- ▣ Optical Add/Drop Multiplexing
- ▣ Telecommunication Networks
- ▣ Metro Networks
- ▣ DWDM Systems



### SPECIFICATIONS

| Parameters                     | Unit | Value   |      |  |   |
|--------------------------------|------|---|------|--|---|
|                                |      | 4-Ch  | 8-Ch | 16-Ch                                  | 32-Ch                                   |
| Center Wavelength              | nm   | 1528-1640, ITU Grid   |      |  |   |
| Channel Spacing                | Hz   | 100G / 200G   |      |  |   |
| Channel Passband Width         | nm   | +/-0.11 / +/-0.25   |      |  |   |
| Insertion Loss                 | 100G | ≤2.5  | ≤4.0 | ≤6.0                                   | ≤6.5                                    |
|                                | 200G | ≤2.2  | ≤3.5 | ≤5.5                                   | ≤6.0                                    |
| Adjacent Channel Isolation     | dB   | ≥25 for DeMux, ≥15 for Mux  |      |  |   |
| Non-adjacent Channel Isolation | dB   | ≥40 for Demux, ≥25 for Mux  |      |  |   |
| Pass Channel Ripple            | dB   | ≤0.5  |      |  |   |
| Channel Uniformity             | dB   | ≤1.0  | ≤1.5 | ≤2.0                                   |   |
| Optical Return Loss            | dB   | ≥45   |      |  |   |
| Directivity                    | dB   | ≥50   |      |  |   |
| Polarization Dependent Loss    | dB   | ≤0.2  |      |  |   |
| Polarization Mode Dispersion   | ps   | ≤0.1  |      | ≤0.2                                   |   |
| Fiber Type                     | -    | SMF-28 Fiber or 10/130um DC Fiber (O)<br>12/130um DC Fiber (T) or 20/130um DC Fiber (Q)<br>25/250um DC Fiber (R) or 25/300um DC Fiber (G) |      |  |   |
| Fiber Tensile Load             | N    | 5   |      |  |   |
| Max. Average Optical Power     | W    | 0.3, 0.5, 1, 2, 3, 5  |      |  |   |
| Max. Peak Power for Pulse      | kW   | 0.1, 1, 2, 3, 5, 10, 15, 20   |      |  |   |
| Operating Temperature          | °C   | 0~70  |      |  |   |
| Storage Temperature            | °C   | -40~85  |      |  |   |
| Package Dimension              | mm   | L100x <sup>W</sup> 80x <sup>H</sup> 10  |      | L120x <sup>W</sup> 80x <sup>H</sup> 18 | L140x <sup>W</sup> 115x <sup>H</sup> 18 |

- Note:**
1. Specifications are for device without connectors; Specifications may change without notice.
  2. To add connectors, IL is 0.3dB higher, RL is 5dB lower.
  3. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
  4. Devices for higher optical power or with other type fiber or consigned fiber are also available; Devices can only work in the core of Double Cladding (DC) Fiber, Cladding Power must be stripped before connecting the device.

### ORDERING INFORMATION (PN)

| FDWM-N          | C              | C       | - | CNN                   | -H            | NN         | P NN                   | -(C)          | C            | NN                      | -CC/CCC |
|-----------------|----------------|---------|---|-----------------------|---------------|------------|------------------------|---------------|--------------|-------------------------|---------|
| Channel Spacing | Channel Number | Type    |   | Starting ITU Channel# | Average Power | Peak Power | Fiber Type             | Fiber Sleeve  | Fiber Length | Connector Type          |         |
| 1= 100GHz       | 4= 4-Channel   | M=Mux   |   | C34= C34 Channel      | 03=300mW      | 01=100W    | O=10/130 DC Fiber      | B= Bare fiber | 05=0.5m      | N=Without Connector     |         |
| 2= 200GHz       | 8= 8-Channel   | D=DeMux |   | H40= H40 Channel      | 1= 1W         | 1= 1kW     | T=12/130 DC Fiber      | L= Loose Tube | 10=1.0m      | FC/APC=FC/APC Connector |         |
|                 | H= 16-Channel  |         |   | C20= C20 Channel      | 2= 2W         | 10=10kW    | G=25/300 DC Fiber      | 2= 2mm Cable  | 15=1.5m      | LC/PC=LC/PC Connector   |         |
|                 | T= 32-Channel  |         |   | L00= L00 Channel      | 5=5W          | 20= 20kW   | Blank for SMF-28 Fiber | 3= 3mm Cable  | 20=2.0m      | SC/UPC=SC/UPC Connector |         |

