

# C-band WDM Standard Amplifier

## OEM-C-WDM-SFA series

2006-08-25 - v1.0

Applications: Module for optical fiber network, 1 to 16 channels ADD/DROP  
 Form factor: OEM 25  
 product reference: KPS-STD-OEM-C-15-WDM-Sd-xxx-yy-zz



### Optical Specifications:

| Conditions                        | Unit                      | C-10            | C-13           | C-15           | C-18           | C-21           |  |
|-----------------------------------|---------------------------|-----------------|----------------|----------------|----------------|----------------|--|
| <b>Mode of operation</b>          |                           | CW              |                |                |                |                |  |
| <b>Nominal output power</b>       | P <sub>inc</sub> = -10dBm | 10              | 13             | 15             | 18             | 21             |  |
| <b>Input power</b>                |                           | From -22 to -10 | From -19 to -7 | From -17 to -5 | From -14 to -2 | From -11 to +1 |  |
| <b>Bandwidth</b>                  |                           | 1530-1562       |                |                |                |                |  |
| <b>Noise figure</b>               | P <sub>in</sub> = -10dBm  | max: 7          | max: 7         | max: 7         | max: 7         | max: 7         |  |
| <b>Input/Interstage isolation</b> |                           | Yes             |                |                |                |                |  |
| <b>Output isolation</b>           |                           | Yes             |                |                |                |                |  |
| <b>Input monitoring</b>           |                           | Yes             |                |                |                |                |  |
| <b>Output monitoring</b>          |                           | Yes             |                |                |                |                |  |
| <b>Control Mode</b>               |                           | ACC, APC, AGC   |                |                |                |                |  |
| <b>APC Pw. Tunability</b>         |                           | 5-100           |                |                |                |                |  |
| <b>APC Pw. Stability</b>          | 8h, 25°C                  | max: 1          |                |                |                |                |  |
| <b>Gain flatness</b>              | G = 20dB                  | max: 2          |                |                |                |                |  |

### Optical Interface:

|                                   | C-10                  | C-13 | C-15 | C-18 | C-21 |
|-----------------------------------|-----------------------|------|------|------|------|
| <b>Output termination options</b> | FA, SA, FP, SP, B     |      |      |      |      |
| <b>Output pigtail</b>             | SMF28, 900µm, PVC, 1m |      |      |      |      |
| <b>Input termination options</b>  | FA, SA, FP, SP        |      |      |      |      |
| <b>Input pigtail</b>              | SMF28, 900µm, PVC, 1m |      |      |      |      |
| <b>Injected linewidth</b>         | Limited               |      |      |      |      |

### Electrical, Environmental and Packaging:

|                                  | Unit | OEM 25         |
|----------------------------------|------|----------------|
| <b>Electrical Specification:</b> |      |                |
| AC Voltage                       | V    | 5 to 24        |
| Power Consumption                | W    | <25            |
| Interface                        |      | RS232          |
| <b>Environmental</b>             |      |                |
| Operating Temperature            | °C   | From 0 to 55   |
| Storage Temperature              | °C   | From -20 to 70 |
| Warm up time                     | min  |                |
| <b>Dimension and Weight</b>      |      |                |
| Dimensions Laser module          | mm   | 150x120x25     |
| Weight                           | Kg   | <0,6           |

### Options available:

- xxx = IN monitoring or PZT, ISO, APC / OUT monitoring options (see specifications)
- yy = input termination option
- zz = output termination option

#### Connectors:

FA=FC/APC; SA=SC/APC; FP=FC/SPC; SP=SC/SPC  
 E2PS=E2000 HP + Patchcord for adaptation  
 Col=Collimated, for free-space use; B=Bare Fiber

All products comply with IEC 60825-1 and FDA (21 CFR Subchapter J) laser safety standards.

Keopsys undertakes a continuous and intensive product development program to ensure that its products perform to the highest technical standards. As a result, the specifications in this document are subject to change without notice.



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