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## FREECALL 1800680680

## MAP Large Channel Count Switch



For stand-alone applications, the MAP Large Channel Count Switch may be used as a benchtop

## Applications

- Dense wavelength division multiplexing (DWDM) channel testing
- Amplifier characterization
- Bit error rate (BER) testing
- Signal routing


## Safety Information

- This cassette, when installed in a MAP chassis, complies to CE requirements plus UL3101-1 and CAN/CSA-C22.2 No. 1010.1.


## Key Features

- Low IL $<0.7$ dB
- Low polarization dependent loss (PDL) 0.04 dB
- Wide wavelength range
- High RL > 57 dB

The Multiple Application Platform (MAP) Large Channel Count Switch Cassette is bidirectional and allows the connection of a common port to any number of channels up to 50 . The cassette is available in single or dual-switch configurations.
The MAP switch cassette is based on JDSU expanded beam and alignment technologies and exhibits low insertion loss (IL) and high return loss (RL).

## 2

| Specifications |  |  |
| :---: | :---: | :---: |
| Parameter | Single-mode fiber <br> SMF 9/125 <br> Typical / Maximum | Multimode fiber MMF 50/125 and 62.5/125 Typical / Maximum |
| Wavelength range ( $\mathrm{N}=$ number of output channels) | 1270 to 1670 nm | 850 to $1350 \mathrm{~nm}, 750$ to 940 nm |
| Insertion loss (IL) |  |  |
| $\mathrm{N} \leq 25$ | $0.5 \mathrm{~dB} / 0.7 \mathrm{~dB}$ | $0.4 \mathrm{~dB} / 0.6 \mathrm{~dB}$ |
| $\mathrm{N}>25$ | $0.8 \mathrm{~dB} / 1.2 \mathrm{~dB}$ | $0.7 \mathrm{~dB} / 1.0 \mathrm{~dB}$ |
| Polarization dependent loss (PDL) ${ }^{1}$ |  |  |
| $\mathrm{N} \leq 25$ | $0.02 \mathrm{~dB} / 0.04 \mathrm{~dB}$ | N/A |
| $\mathrm{N}>25$ | $0.04 \mathrm{~dB} / 0.08 \mathrm{~dB}$ | N/A |
| Return loss (RL) ${ }^{2}$ |  |  |
| $\mathrm{N} \leq 25$ | $62 \mathrm{~dB} / 57 \mathrm{~dB}$ | $25 \mathrm{~dB} / 20 \mathrm{~dB}$ |
| $\mathrm{N}>25$ | $55 \mathrm{~dB} / 45 \mathrm{~dB}$ | $20 \mathrm{~dB} / 20 \mathrm{~dB}$ |
| IL Stability |  |  |
| $\mathrm{N} \leq 25$ | $\pm 0.02 \mathrm{~dB} / \pm 0.025 \mathrm{~dB}$ |  |
| $\mathrm{N}>25$ | $\pm 0.03 \mathrm{~dB} / \pm 0.04 \mathrm{~dB}$ |  |
| Repeatability sequential switching |  |  |
| $\mathrm{N} \leq 25$ | $\pm 0.005 \mathrm{~dB} / \pm 0.01 \mathrm{~dB}$ |  |
| $\mathrm{N}>25$ | $\pm 0.01 \mathrm{~dB} / \pm 0.03 \mathrm{~dB}$ |  |
| Repeatability random switching |  |  |
| $\mathrm{N} \leq 25$ | $\pm 0.01 \mathrm{~dB} / \pm 0.05 \mathrm{~dB}$ |  |
| $\mathrm{N}>25$ | $\pm 0.03 \mathrm{~dB} / \pm 0.08 \mathrm{~dB}$ |  |
| Crosstalk |  |  |
| $\mathrm{N} \leq 25$ | - $80 \mathrm{~dB} / \mathrm{N} / \mathrm{A}$ |  |
| $\mathrm{N}>25$ | - $80 \mathrm{~dB} / \mathrm{N} / \mathrm{A}$ |  |
| Switching time (first channel / each additional channel) | $25 \mathrm{~ms} / 15 \mathrm{~ms}$ |  |
| Maximum input power (optical) | 300 mW |  |
| Lifetime | $>100$ million cycles |  |
| Operating temperature | -5 to $55^{\circ} \mathrm{C}$ |  |
| Storage temperature | - 30 to $60^{\circ} \mathrm{C}$ |  |
| Dimensions (W x H x D) | $4.06 \times 13.24 \times 39.5 \mathrm{~cm}$ |  |
| Weight | 1.3 kg maximum (varies with configuration) |  |

1. Excluding connectors. All optical measurements taken after temperature has been stabilized for one hour.
2. RL is based on 1 m pigtail (equivalent to bulkhead version).

JDSU

## Ordering Information

For more information on this or other products and their availability, please contact your local JDSU account manager or JDSU directly at 1-800-498-JDSU (5378) in North America and $+800-5378$-JDSU worldwide or via e-mail at customer.service@jdsu.com.

## Sample: MAPS+1K70104N1FP



If the configurations available do not meet your performance requirements, please contact our global sales and customer service team to discuss the potential for specialized solutions.

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