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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).

Specifications

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

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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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