

MAP Utility (mUTL-A1)



Applications

- Bit error rate (BER) test
- Passive component test
- Optical amplifier test

Safety Information

- The MAP Utility, when installed in a MAP chassis, complies to CE, CSA/UL/IEC61010-1, plus LXI Class C requirements.

Key Features

- Coupling, splitting and mux/demux functionality in a robust package
- Supports single-mode and multimode fibers
- User-defined configurability
- Ideal for individual lane testing on WDM signals for 100GE and 40GE applications

The Multiple Application Platform (MAP) Utility (mUTL-A1) is optimized for the industry-leading JDSU MAP-200 platform. Based on the previous-generation MAP, the MAP-200 is the first photonic layer lab and manufacturing platform that is LAN Extensions for Instrumentation (LXI)-compliant by conforming to the required physical attributes, Ethernet connectivity, and interchangeable virtual instrument (IVI) drivers. The MAP-200 platform is optimized for density and maximum configurability to meet specific application requirements in the smallest possible foot print. The MAP Utility is designed to simplify the mechanical integration of passive optical components for test sets. It supports angle or flat polish connectors as well as single-mode (SM) and multimode (MM) fibers.

A blank MAP Utility cassette is available for mechanical mounting of components such as isolators, circulators or fixed attenuators. The cassettes are supplied with mounting hardware and ten bulkhead adapters for ease-of-integration.

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Single-Mode (SM) Specifications

Parameter	SM 1x2, 1/99 Coupler (Fused)	SM 1x2, 10/90 Coupler (Fused)	SM 1x2, 30/70 Coupler (Fused)	SM 1x2, 50/50 Coupler (Fused)
Fiber type			9/125 μ m	
Wavelength			1310/1550 nm	
Insertion loss (IL)	<24.0/1.2 dB	<11.8/<1.2 dB	<6.5/<2.4 dB	<4.1 dB
Optical power handling			300 mW	
Number of slots			1	
Dimensions (W x H x D)			4.06 x 13.26 x 37.03 cm (1.6 x 5.22 x 14.58 in)	
Weight			1.0 kg (2.2 lb)	

Multimode (MM) Specifications

Parameter	MM 10/90 Coupler (Micro-optic)	MM 50/50 Coupler (Micro-optic)
Fiber type		50/125 or 62.5/125 μ m
Wavelength		850/1310 nm
IL	<11.8/<1.2 dB	<4.1 dB
Optical power handling		300 mW
Number of slots		1
Dimensions (W x H x D)		4.06 x 13.26 x 37.03 cm (1.6 x 5.22 x 14.58 in)
Weight		<1.0 kg (2.2 lb)

mWDM-A1 100GE Specifications

Parameter	
Fiber type	9/125 μ m
Wavelength	1295.6, 1300.1, 1304.6, 1309.1 nm
IL	<2.0 dB
Pass bandwidth	\pm 1.50 nm
Ripple in passband	<0.5 dB
Return loss	>45 dB
Isolation adjacent channel	>15 dB
Isolation non-adjacent channel	>15 dB
Internal fiber length	1 \pm 0.1 m
Number of slots	1
Dimensions (W x H x D)	4.06 x 13.26 x 37.03 cm (1.6 x 5.22 x 14.58 in)
Weight	<1.0 kg (2.2 lb)

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mWDM-A1040GE Specifications

Parameter	
Fiber type	9/125 μm
Wavelength	1271, 1291, 1311, 1333 nm
IL	<1.7 dB
Pass bandwidth	± 6.50 nm
Ripple in passband	<0.5 dB
Return loss	>45 dB
Isolation adjacent channel	>30 dB
Isolation non-adjacent channel	>50 dB
Internal fiber length	1 \pm 0.1 m
Number of slots	1
Dimensions (W x H x D)	4.06 x 13.26 x 37.03 cm (1.6 x 5.22 x 14.58 in)
Weight	<1.0 kg (2.2 lb)

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.

Product Code	Description
Base Options (Required)	
MUTL-A1000	MAP Utility, Blank
Splitter Options (Optional, select one, two, or three)	
MUTL-A101SB	MAP Utility, 1% Coupler, Bulkheads
MUTL-A110SB	MAP Utility, 10% Coupler, Bulkheads
MUTL-A130SB	MAP Utility, 30% Coupler, Bulkheads
MUTL-A150SB	MAP Utility, 50% Coupler, Bulkheads
MWDM-A1100GE	MAP Utility, Mux/Demux, Bulkheads, With M100 and MFA only
MWDM-A1040GE	MAP Utility, Mux/Demux, Bulkheads, With M100 and MFA only
Fiber Type Options (Required if splitter option selected, select one)	
M100	9/125 fiber type
M101	50/125 fiber type
M102	62.5/125 fiber type
Connector Options (Required)	
MFP	FC/PC connector type
MFA	FC/APC connector type (for M100 fiber type option only)
MSC	SC/PC connector type
MSU	SC/APC connector type (for M100 fiber type option only)

Test & Measurement Regional Sales

NORTH AMERICA TEL: 1 866 228 3762 FAX: +1 301 353 9216	LATIN AMERICA TEL: +1 954 688 5660 FAX: +1 954 345 4668	ASIA PACIFIC TEL: +852 2892 0990 FAX: +852 2892 0770	EMEA TEL: +49 7121 86 2222 FAX: +49 7121 86 1222	WEBSITE: www.jdsu.com/test
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