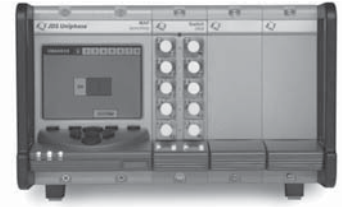
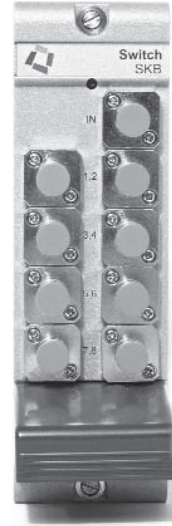


MAP Large Channel Count Switch

The 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 JDS Uniphase expanded beam and alignment technologies and exhibit low insertion loss and high return loss.

The JDS Uniphase Multiple Application Platform (MAP) Master/Slave chassis can accommodate up to eight MAP switch cassettes (a total of 16 switches per chassis). Custom configurations as well as integration of passive components is also available. Contact your JDS Uniphase sales representative for more details.



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

Key Features & Benefits

Low insertion loss < 0.7 dB

Low polarization dependent loss 0.04 dB

Wide wavelength range

High return loss > 57 dB

Complies to CE requirements plus UL3101-1 and CAN/CSA-C22.2 No. 1010.1

Applications

DWDM channel testing

Amplifier characterization

Bit error rate testing

Signal routing

MAP Large Channel Count Switch

Specifications

PARAMETER ¹		TYPICAL (MAXIMUM)	TYPICAL (MAXIMUM)
		SMF 9/125	MMF 50/125 AND 62.5/125
Wavelength range		1270 - 1670 nm	850 - 1350 nm, 750 - 940 nm
Insertion loss	N ≤ 25 (non-latching), N ≤ 22 (latching)	0.5 (0.7) dB	0.4 (0.6) dB
	N > 25 (non-latching), N > 22 (latching)	0.8 (1.2) dB	0.7 (1.0) dB
Polarization dependent loss ¹	N ≤ 25 (non-latching), N ≤ 22 (latching)	0.02 (0.04) dB	NA
	N > 25 (non-latching), N > 22 (latching)	0.04 (0.08) dB	NA
Return loss ²	N ≤ 25 (non-latching), N ≤ 22 (latching)	62 (57) dB	25 (20) dB
	N > 25 (non-latching), N > 22 (latching)	55 (45) dB	20 (20) dB
Insertion Loss Stability	N ≤ 25 (non-latching), N ≤ 22 (latching)	± 0.02 (± 0.025) dB	
	N > 25 (non-latching), N > 22 (latching)	± 0.03 (± 0.04) dB	
Repeatability			
Sequential switching	N ≤ 25 (non-latching), N ≤ 22 (latching)	± 0.005 (± 0.01) dB	
	N > 25 (non-latching), N > 22 (latching)	± 0.01 (± 0.03) dB	
Random switching	N ≤ 25 (non-latching), N ≤ 22 (latching)	± 0.01 (± 0.05) dB	
	N > 25 (non-latching), N > 22 (latching)	± 0.03 (± 0.08) dB	
Crosstalk	N ≤ 25 (non-latching), N ≤ 22 (latching)	- 80 dB	NA
	N > 25 (non-latching), N > 22 (latching)	- 80 dB	NA
Switching time (first channel/each additional channel)		25/15 ms	
Maximum input power (optical)		300 mW	
Lifetime		> 100 million cycles	
Dimensions (W x H x D)		4.06 x 13.24 x 39.5 cm	
Weight		1.3 kg maximum (varies with configuration)	
Operating temperature		- 5 to 55 °C	
Storage temperature		- 40 to 60 °C	

1. Excluding connectors. All optical measurements taken after temperature has been stabilized for one hour.

2. Return loss is based on 1 m pigtail (equivalent to bulkhead version).

MAP Large Channel Count Switch

Ordering Information

Indicate your requirements by selecting one option from each configuration table. Print the corresponding codes in the available boxes to form your part number.

SAMPLE: MAPS+1K17104L1FP

MAPS+1K

code	fiber type (μm)
17	50/125, 750-940 nm
18	50/125, 850-1310 nm
27	62.5/125, 750-940 nm
28	62.5/125, 850-1310 nm
70	9/125, 1270-1670 nm

code	switch configuration
1CCL1	Single switch, 1xCC ¹ , latching, bulkheads
1CCN1	Single switch, 1xCC ¹ , non-latching, bulkheads
1CCL3	Single switch, 1xCC ² , latching, pigtail 2 m long
1CCN3	Single switch, 1xCC ² , non-latching, pigtail 2 m long
204L1	Two switches, 1x4, latching, bulkheads
204N1	Two switches, 1x4, non-latching, bulkheads
2CCL3	Two switches, 1xCC ⁴ , latching, pigtail 2 m long
2CCN3	Two switches, 1xCC ⁴ , non-latching, pigtail 2 m long

code	connector type (all ports)
NC	No connector (pigtail)
FP	FC/PC
FA	FC/APC
SC	SC/PC
SU	SC/APC
SP	ST/PC
LC	LC/PC

1. Number of output channels (01 to 08)
2. Number of output channels (01 to 42)
3. Number of output channels (01 to 50)
4. Number of output channels (01 to 22)
5. Number of output channels (01 to 25)

SMF-28 is a registered trademark of Corning Incorporated.

ST is a registered trademark of Lucent Technologies.



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.