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VIAVI Solutions

Data Sheet

VIAVI

Optical Switch Module (mOSW-C1)

Optical Switch for MAP Series

The mOSW-C1 Optical Switch module is the industry standard for manufacturing test automation applications and has the widest range of switch options in the industry. A member of the LightDirect Family of MAP series modules, the mOSW-C1 can be deployed in the compact MAP-220C 2-slot chassis or the larger 3 and 8 slot chassis systems (second generation MAP-230B & MAP-280 or the third generation MAP-330 & MAP-380).



Configuration Process

All mOSW switches are configured by a single part number that completely defines the function and options of the switch.

The structure of the part number mOSW-C1**ABBCCCDE**-M**XXX**-M**YY** is as follows:

A refers to the number of independent mOSW-C1 switches in the module (1, 2, or 4)

BB refers to the switch type and defines the input type (1C, 2D[1], 2E, 2X)

CCC defines the number of outputs (from 002 to 064, increments shown in table)

D defines the termination type (B for bulkhead, P for 2m pigtails)

E defines the options (0 = no option, 1 = Power Trim option[2], H = High Directivity[3])

M**XXX** defines the fiber type, refer to Table 1

M**YY** defines the connector type, refer to Table 2



Single-width module



Double-width module

Table 1

Code	Fibre Type
M100	9µm Single Mode
M101	50µm (OM3)
M102	62.5µm (OM1)
M105[4]	100µm

Table 2

Code	Connector Type
MFP	FC/PC
MFA	FC/APC
MSC	SC/PC
MSU	SC/APC
MLC	LC/PC
MLU	LC/APC

Notes

1. D Config part numbers indicate the number of switchable output states. The total number of physical output connectors will be 2X the number of states i.e. 2Dx004 has 8 output connectors
2. Power Trim option is available only for 1C type switch with 9µm Single Mode fiber with the exception of switch type 1c002
3. High Directivity option is available only for 1C002 & 2X002 type switch with 9µm Single Mode fiber
4. 100µm fiber type is available only for Bulkhead termination

Available Configurations

mOSW-C1, 1x4 Configurations and Larger

Number of Switches	Input Type	Connectivity	Switch Fabric	Part Number
One independent switch per module	1C (Single Input)	Bulkhead	1Cx04	MOSW-C111C004BE-MXXX-MYY
			1Cx08	MOSW-C111C008BE-MXXX-MYY
			1Cx12	MOSW-C111C012BE-MXXX-MYY
			1Cx24	MOSW-C111C024BE-MXXX-MYY
		2m Pigtail	1Cx08	MOSW-C111C008PE-MXXX-MYY
			1Cx12	MOSW-C111C012PE-MXXX-MYY
			1Cx24	MOSW-C111C024PE-MXXX-MYY
			1Cx32	MOSW-C111C032PE-MXXX-MYY
			1Cx48	MOSW-C111C048PE-MXXX-MYY
			1Cx64	MOSW-C111C064PE-MXXX-MYY
	2D (Duplex)	Bulkhead	2Dx02	MOSW-C112D002B0-MXXX-MYY
			2Dx04	MOSW-C112D004B0-MXXX-MYY
			2Dx06	MOSW-C112D006B0-MXXX-MYY
			2Dx12	MOSW-C112D012B0-MXXX-MYY
		2m Pigtail	2Dx04	MOSW-C112D004P0-MXXX-MYY
			2Dx06	MOSW-C112D006P0-MXXX-MYY
			2Dx12	MOSW-C112D012P0-MXXX-MYY
			2Dx16	MOSW-C112D016P0-MXXX-MYY
			2Dx24	MOSW-C112D024P0-MXXX-MYY
			2Dx32	MOSW-C112D032P0-MXXX-MYY
	2E (Dual input, every channel)	Bulkhead	2Ex04	MOSW-C112E004B0-MXXX-MYY
			2Ex08	MOSW-C112E008B0-MXXX-MYY
			2Ex12	MOSW-C112E012B0-MXXX-MYY
			2Ex24	MOSW-C112E024B0-MXXX-MYY
		2m Pigtail	2Ex08	MOSW-C112E008P0-MXXX-MYY
			2Ex12	MOSW-C112E012P0-MXXX-MYY
			2Ex24	MOSW-C112E024P0-MXXX-MYY
			2Ex32	MOSW-C112E032P0-MXXX-MYY
			2Ex48	MOSW-C112E048P0-MXXX-MYY
			2Ex64	MOSW-C112E064P0-MXXX-MYY
Two independent switches per module	1C (Single Input)	Bulkhead	1Cx04	MOSW-C121C004BE-MXXX-MYY
			1Cx12	MOSW-C121C012BE-MXXX-MYY
		Pigtail	1Cx08	MOSW-C121C008PE-MXXX-MYY
			1Cx12	MOSW-C121C012PE-MXXX-MYY
			1Cx24	MOSW-C121C024PE-MXXX-MYY
	2D (Duplex)	Bulkhead	2Dx02	MOSW-C122D002B0-MXXX-MYY
		Pigtail	2Dx04	MOSW-C122D004P0-MXXX-MYY
			2Dx06	MOSW-C122D006P0-MXXX-MYY
			2Dx12	MOSW-C122D012P0-MXXX-MYY
	2E (Dual input, every channel)	Bulkhead	2Ex04	MOSW-C122E004B0-MXXX-MYY
		Pigtail	2Ex08	MOSW-C122E008P0-MXXX-MYY
			2Ex12	MOSW-C122E012P0-MXXX-MYY
			2Ex24	MOSW-C122E024P0-MXXX-MYY

Select the required options for E, fiber type XXX & connector type YY

Bold indicates double-width modules

Available Configurations Continued

mOSW-C1, 1x2 and 2x2 Configurations

Number of Switches	Input Type	Connectivity	Switch Fabric	Part Number
One independent switch per module	1C	Bulkhead	1x2	MOSW-C111C002BE-MXXX-MYY
	2X		2x2	MOSW-C112X002BE-MXXX-MYY
Two independent switches per module	1C		1x2	MOSW-C121C002BE-MXXX-MYY
	2X		2x2	MOSW-C122X002BE-MXXX-MYY
Four independent switches per module	1X		1x2	MOSW-C141C002B0-M100-MYY
	2X	Pigtail	2x2	MOSW-C142X002P0-M100-MYY
Eight independent switches per module	1C		1x2	MOSW-C181C002P0-M100-MYY

Additional Test Reports for Single-Mode Versions

Description	Part Number
Bidirectional test report for single switch with 4 to 12 ports	MBIDTEST1-012
Bidirectional test report for dual switch with 4 to 12 ports	MBIDTEST2-102
Bidirectional test report for single switch with 13 to 24 ports	MBIDTEST1-024
Bidirectional test report for dual switch with 13 to 24 ports	MBIDTEST2-024

VIAVI Solutions

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