VX500 2XN OPTICAL SWITCH

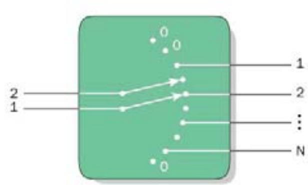
DiCon's VX500 2xN Switch offers accurate connection of two input fiber channel to a maximum of 30 output fiber channels. The 2xN Switch is available in blocking and non-blocking configurations. The VX500 2xN Switch is available in a compact housings for up to 14 or 30 output channels. The housings are designed for mounting on printed circuit boards or within enclosures. DiCon's VX500 2xN Switch can be built with singlemode, multimode or polarization maintaining panda fiber.

Features

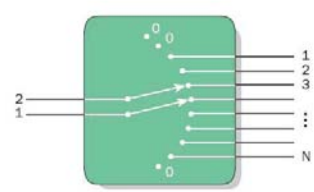
- Compact housings with up to 30 output channels
- Flexible fiber types and wavelength ranges

Applications

Applications for VX500 2xN switches include component testing and measurement, remote fiber test systems, and fiber network monitoring.



Blocking 2xN



Non-Blocking 2xN

Blocking 2xN switches have two inputs aligned with only one output. The components switch in half-channel increments. Non-Blocking 2xN switches have two inputs aligned with two outputs. They switch in two-channel increments.

DiCon
FIBEROPTICS, INC

VX500 2XN OPTICAL SWITCH

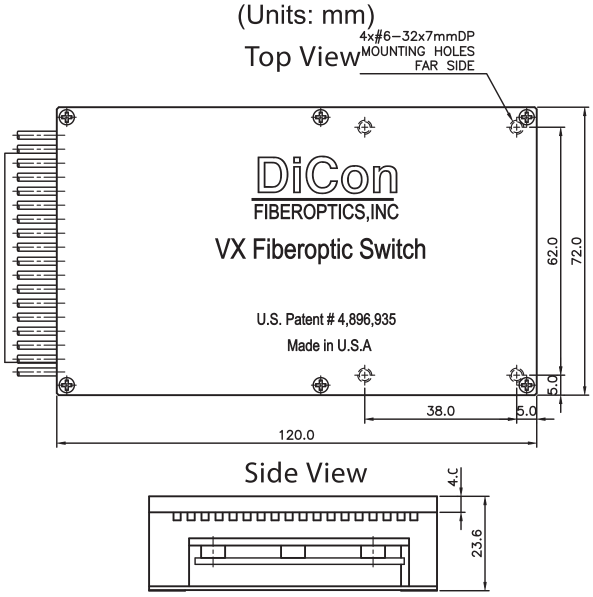
OPTICAL SPECIFICATIONS[1]

PARAMETER		RATING
Insertion Loss[2,3]		1.0 dB max
Crosstalk		-80 dB max.
Back Reflection	Singlemode	-55 dB max.
	Multimode 50µm	-25 dB max.
	Multimode 62.5µm	-20 dB max.
PDL[4,5]		0.10 dB max.
Extinction Ratio[6]		18 dB min.
Switching Time		300 ms + 16 ms per channel max.
Repeatability[7]		±0.02 dB max.
Durability		10 million cycles min.
Optical Power[8]		300 mW max.
Operating Temp		0 to 50°C
Storage Temp		-20 to 70°C

1. Specifications are without connectors.
2. IL is measured at CWL, 23°C.
3. IL is for single-band. Dual-band adds 0.2 dB.
4. Singlemode only,
5. PDL is for single-band. Dual-band adds 0.05 dB.
6. Corning Panda PM 1550 fiber only
7. Repeatability is defined after 100 cycles.
8. High power version (1.5W) available as special order

MECHANICAL DIMENSIONS CHASSIS #1

(Units: mm)



HOUSING SPECIFICATIONS

Chassis	Channel Count		Width W	Height H	Depth D
	Non-Blocking	Blocking			
#1	2 to 14	4 to 8	72.0 mm	23.6 mm	120.0 mm
#2	16 to 32	10 to 24	140.0 mm	23.6 mm	140.0 mm

ORDERING INFORMATION

VX - 5 - □ - □ - □ - □ - □ - □

Product Code

VX	VX500 Switch

Switch Configuration

2xN/LB	Blocking 2xN
2xN/LN	Non-Blocking 2xN

Fiber Type

9	9µm core Corning SMF-28
50	50µm core
62	62.5µm core
PM	Panda 1550 with 400µm jacket

Wavelength Range

8	850 nm[1]
13	1290 - 1330 nm[2]
15	1530 - 1570 nm[3]
16	1570 - 1610 nm[2]
8/13	850 nm & 1310 nm[1]
13/15	1290 - 1330 & 1530 - 1570 nm[2]
15/16	1530 - 1570 & 1570 - 1610 nm[2]

Connector Type

FC/SPC	FC/SPC
FC/APC	FC/APC
N	NONE

Also Available: SC, SC/UPC, SC/APC, ST, ST/UPC, LC

Fiber Jacket

2	2.0 mm, loose tube
9	0.9 mm, tight buffer[4]
9LT	900 µm, loose tube

Pigtail Length

1	1 Meter
X	Specify X Meters

Tolerance is +/- 0.05 m

1. Multimode fiber only
2. 9/125µm SMF-28 fiber only
3. 9/125µm SMF-28 and Panda 1550 fiber only
4. 9/125µm SMF-28 and 62.5µm core fiber only

ELECTRICAL SPECIFICATIONS

PARAMETER	RATING
Latching Type	non-latching
Control Type	TTL
Vcc Voltage	12 VDC
Power Consumption	3.6W max.
Connector Type	Molex 22-12-2124

DiCon Fiberoptics, Inc. 1689 Regatta Blvd. Richmond, CA 94804 Tel. (510) 620-5000 Fax. (510) 620-4100 www.diconfiberoptics.com