## 与wITCHES

## VX5ロロ こxN 与witct

DiCon＇s VX500 2xN Switch offers accurate connection of two input fiber channels to a maximum of 30 output fiber channels．The 2 xN switch is available in blocking and non－blocking configurations．The VX500 2xN Switch is available in 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 Coming SMF－28，Fexcor 1060 or Polarization Maintaining Panda fiber．


## Ғモ円TリRモケ

－Very low insertion loss
－Low back－reflection
－Compact housings with up to 30 output channels
－Parallel TTL interface
－Flexible fiber types and wavelength ranges

## 円ャアレ1C円T1ロNS

Applications for $2 \times \mathrm{N}$ switches include component testing and measurement，remote fiber test systems，and fiber network monitoring．


Blocking $2 \times \mathrm{N}$


Non－Blocking 2xN

Blocking 2 xN 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．

ラヤモС1F1C円T1ロNS ${ }^{1}$

| Insertion loss ${ }^{2}$ |  | 0.6 dB typ．， 1.0 dB max． |
| :---: | :---: | :---: |
| Back－reflection | singlemode | －60 dB typ．，－55 dB max． |
|  | multimode | -20 dB typ． |
| Repeatability ${ }^{3}$ |  | $\pm 0.02 \mathrm{~dB}$ max． |
| PDL ${ }^{4}$ |  | 0.05 dB max． |
| Cross－talk |  | －80 dB max． |
| Extinction ratio ${ }^{5}$ |  | 18 dB min． |
| Switching time |  | $300 \mathrm{~ms}+16 \mathrm{~ms} \mathrm{per} \mathrm{channel} \mathrm{max}$. |
| Durability |  | 10 million cycles min． |
| Power requirements |  | $\pm 12$ VDC $\pm 5 \%$ power in， 300 mA max． |
| Optical power ${ }^{6}$ |  | 300 mW max． |
| Operating temperature |  | $0^{\circ} \mathrm{C}$ to $+50^{\circ} \mathrm{C}$ max． |
| Storage temperature |  | $-20^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ |
| Humidity |  | $40^{\circ} \mathrm{C} / 90 \% \mathrm{RH} / 5$ days |

1．All specifications referenced without connector．
2．1．1．dB max．for multitile wavelength ranges．
3．Secuential reeeatabiity for 100 cycles at constant temperature atter warm－up 4．Singlemode only．Measured at 1550 nm ．
5．Corring Panda PM 1300 fiber type only．
6．High power version（ 2 W ）available as special order．

PiN 円SS1GNMENTS

| Pin Number | Signal Type | Description |
| :---: | :---: | :---: |
| 1 | Power | Signal Ground |
| 2 | Power | Power Ground |
| 3 | Input | Data bit 0 |
| 4 | Input | Data bit 1 |
| 5 | Input | Data bit 2 |
| 6 | Input | Data bit 3 |
| 7 | Input | Data bit 4 |
| 8 | Input | Strobe |
| 9 | Output | Busy／ready status |
| 10 | Output | Error Status |
| 11 | Input | Reset |
| 12 | Power | +12 VDC power in |

HaUSing Specifications

| Chassis | Channel count |  | Non Bocking <br> \＆Duplex | Blocking | Width W |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Depth D |  |  |  |  |
| $\# 1$ | 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 |

HaUsing Dimensians


Units：mm
Aectrical connector is 12－pin rightangle header（Molex part number 22

## DiCon

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