#### **GP850 OPTICAL SWITCH**

## Singlemode 2x2 Configurable Switch Slot Card



DiCon's **2x2 Configurable Switch Slot Card** offers accurate and fast switching speeds to insert or bypass a customer device or optical component. Each slot card is designed for easy integration into DiCon's GP850 modular system. All slot cards are hot swappable and require no configuration, providing true plug-and-play functionality.

- · Precise repeatability
- · Fast switching time MEMS
- · Proven MEMS Durability and Reliability
- · Compact Form Factor
- · Low Power Consumption

# 

Inserted State (Ch.2)

#### GP850 - SL - M - 🗌 - 🔲 - 9 - 🔲 - 🔲 - N Product Type SL Slot Card Device Type MEMS Switch Configuration X/2x2/BK # of Switches / 2x2 Blocking X/2x2/NB # of Switches / 2x2 Non-Blocking X/2x2/AD # of Switches / 2x2 Add/Drop \*Please refer to the configuration diagram for details. Slot Width 18 1-Slot Width 28 2-Slot Width \*Custom multi-slot modules are available Alignment Type T Transparent Opaque Fiber Type 9/125 µm SMF \*Other fiber options are available upon request Test Wavelength 0 1310 nm С 1550 nm 1590 nm \*Use "/" to add multiple wavelengths (E.g., O/C or O/C/L) Power-On State 0 Channel 0 (Off state) 1 Channel 1 Χ Channel X Connector Type FC FC/UPC FC/APC FC/APC LC LC/UPC LC/APC LC/APC SC/UPC SC SC/APC SC/APC \*Other connector types are available upon request

ORDERING INFORMATION



Bypass State (Ch.1)

Connector Key Orientation

None

#### **GP850 OPTICAL SWITCH**

# Singlemode 2x2 Configurable Switch Slot Card

#### OPTICAL SPECIFICATIONS<sup>1</sup>

Operating Wavelength		1260 to 1680 nm
Insertion Loss <sup>2</sup>	Blocking	0.8 dB max. <sup>3</sup>
	Non-Blocking	1.0 dB max. <sup>3,4</sup>
	Add/Drop	0.8 dB max. <sup>3</sup>
PDL <sup>5,9</sup>		0.1 dB max.
WDL <sup>5,6,9</sup>		0.2 dB max.
Repeatability <sup>7</sup>		0.02 dB max.
Transition Time <sup>8,9</sup>		20 ms max.
Crosstalk <sup>9</sup>		-50 dB max.
Back Reflection		-50 dB max.
Durability <sup>9</sup>		1 Billion Cycles min.
Optical Power <sup>9</sup>		500 mW max.
Fiber Type		Singlemode

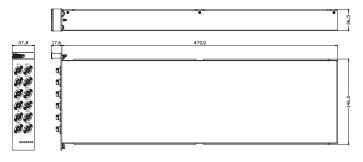
- All specifications are measured separately at room temperature for each Test Wavelength
- 2. Measured with 3-jumper method or equivalent (See TIA/EIA 526-7)
- 3. Multi-band adds 0.2 dB
- 4. In 2 to Out 2 path adds 0.8 dB
- 5. In 2 to Out 2 path adds 0.1 dB
- 6. WDL is defined within Test Wavelength ±20 nm
- 7. Repeatability is defined over 100 cycles; In 2 to Out 2 adds 0.02 dB  $\,$
- 8. Optical transition time for all ports switching concurrently, not including command processing overhead
- 9. Met by design, not measured

### **ENVIRONMENTAL SPECIFICATIONS**

Operating Temperature	0 to 50°C, < 85% RH
Storage Temperature	-40 to 70°C, < 40% RH

#### **MECHANICAL SPECIFICATIONS**

Slot Width	37.8 mm
Slot Depth	487.6 mm
Slot Height	146 mm



DiCon Fiberoptics, Inc. www.diconfiberoptics.com