



1 x 2 Single Mode Fiber Optic Switch

1x2 Single Mode Switch



Description

FCI's 1x2 fiber optic switch has industry leading performance in a very compact housing profile which is PCB (printed circuit board) mountable. This robust device uses patented technology and an epoxy free optical path providing insertion loss of 0.5dB typical. The unique latching mechanism ensures that the switch remains in the selected position following power loss.

Designed for use in Optical Cross-Connect systems, configurable Optical Add/Drop Multiplexers, and optical monitoring and fault protection applications, the small size (40.4 mm x 21.8 mm x 8.7 mm) makes this product ideal for high density applications.

Features

- Small overall profile
- Suitable for PCB mounting
- Full latching operation
- Epoxy-free optical path
- Low insertion loss
- Low channel crosstalk
- Designed to comply with Telcordia GR-1073-CORE and GR-1221-CORE

Applications

- Network switching in the central office
- Optical network protection and monitoring
- Configurable optical add/drop

Target Markets

- Telecom
- Data Com
- Industrial & Instrumentation

<http://www.fciconnect.com>

Americas Tel.: 800 237 2374
717 938 7200
Europe Tel.: 33 1 39 49 21 83
Asia/Pacific Tel.: 65 549 6666

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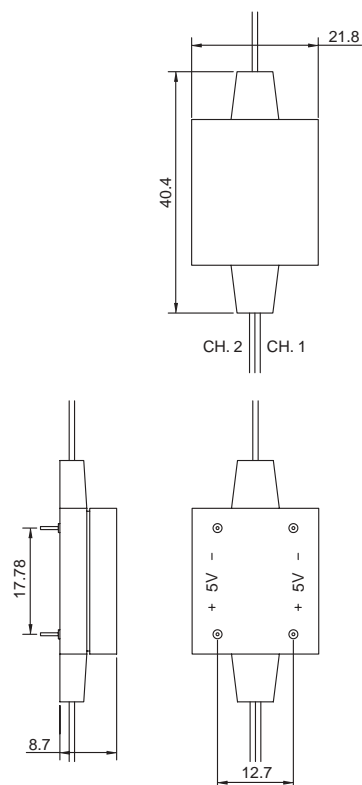
Technical Features

Mechanical Layout

Specifications

Unless otherwise noted all measurements are performed at room temperature (25°C)

Parameter	Conditions	Symbol	Min	Typ.	Max	Unit
Insertion loss	1260 nm...1360 nm	IL		0.5	1.0	dB
	1470 nm...1630 nm	IL		0.5	1.0	dB
Return loss	1300 nm/1550 nm	RL		60	55	dB
Polarization dependent loss	1300 nm/1550 nm	PDL		<0.05	0.2	dB
Repeatability	1300 nm/1550 nm	ΔIL^{rep}		0.10	0.25	dB
Uniformity	1300 nm/1550 nm	ΔIL_{uni}		0.20	0.5	dB
Temperature dependence of IL	1300 nm/1550 nm -20°C...+70°C	ΔIL_{st} (max-min)		0.25	0.5	dB
Crosstalk	1300 nm/1550 nm	XT		-70	-60	dB
Optical input power (CW)		P_i			300	mW
Switching time		T_s		4	10	ms
Voltage supply		V_s			5	V
Current supply		I_s			300	mA
Operating case temperature		T_{oper}	-20		+70	°C
Storage temperature		T_{stg}	-40		+85	°C
Humidity (non condensing)					85	%



Dimensions in millimeters

Ordering Information

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 Base Part Number Input Fiber Connector Channel 1 Connector Channel 2 Connector Pigtail Length

Base Number	Input Fiber Connector	Channel 1 Connector	Channel 2 Connector	Pigtail Length
53959	FC	FC	FC	10
"	FA	FA	FA	10
"	SC	SC	SC	10
"	SA	SA	SA	10
"	LC	LC	LC	10
"	MU	MU	MU	10

Connectors

- FC = FC connector
- FA = FC/APC connector
- SC = SC connector
- SA = SC/APC connector
- LC = LC connector
- MU = MU connector

Pigtail Length

- 10 = 1 meter pigtail
- **Custom lengths available upon request. Contact your local field sales representative.**

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