

FAST FIBER OPTIC 1x16 SWITCH

OVERVIEW

The SW fiber optic switch is a very fast opto-mechanical switch based on the MEMS technology. The component makes an optical connection between an optical port and either one of 16 input or output lines. The highly reliable switching mechanism use integrated micromirrors and features below 1 ms switching time and below 1.5 dB insertion loss. The switch is powered by a 5 V supply voltage. A 5 V TTL or CMOS drive signal is used to control the switching state.

The switching mechanism offers the reliability of a solid state device; it neither wears out nor degrades over time. Even after billions of cycles the switching quality stays constant. The miniature package withstands rugged environments and is well suited for direct mounting on printed circuit boards.

FEATURES

- reliable
- 1.0 dB insertion loss
- 1 ms response time
- 60 dB crosstalk
- miniature size
- non-latching

APPLICATIONS

- **Optical Reconfiguration**
- Instrumentation
- Provisioning

ORDERING INFORMATION

SW1x16-9N



Contact:

Sercalo microtechnology ltd Landstrasse 151, 9494 Schaan Principality of Liechtenstein Tel. +423 237 57 97 Fax. +423 237 57 48 e-mail:info@sercalo.com www.sercalo.com



TECHNICAL SPECIFICATIONS				
	Unit	Min	Тур	Max
Switch				
Wavelength Range	nm	1240		1640
Insertion Loss	dB		1.0	1.6
Crosstalk	dB		75	60
Backreflection	dB		55	50
Polarisation Dependent Loss	dB			0.12
Repeatability ¹	dB			0.002
Switching Time	ms		0.5	1
Switching Voltage	V			5
Fiber Pigtail	μM		9/125/900	
Durability	cycles		no wear out	
Package				
Power Consumption	mW		190	
Operation Temperature	°C	0		70
Storage Temperature	°C	-40		85
Size (L x W x H)	mm		175 x 105 x 10	
¹ value for constant temperature and polarisa	ation			



