

FAST FIBER OPTIC 1x8 SWITCH

OVERVIEW

The *SW* 1x8 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 8 input or output lines. The highly reliable switching mechanism use integrated micromirrors and features below 1 ms switching time and below 1.4 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

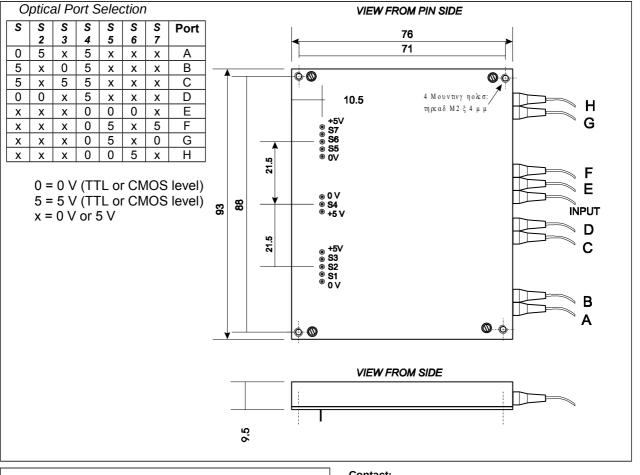
ORDERING INFORMATION SW1x8-9N



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TECHNICAL SPECIFICATIONS				
	Unit	Min	Тур	Max
Switch				
Wavelength Range	nm	1240		1640
Insertion Loss	dB		0.8	1.4
Crosstalk	dB		75	60
Backreflection	dB		55	50
Polarisation Dependent Loss	dB			0.10
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		40	
Operation Temperature	°C	0		70
Storage Temperature	°C	-40		85
Size (Ľ x W x H)	mm		76 x 93 x 9.5	



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Revision 6, information in this datasheet is believed to be correct but Sercalo reserves the right to change specifications without notice at any time. [90-1007-6]