

Multimode FIBER OPTIC 1x8 SWITCH

OVERVIEW

The SW 1x8 switch is a very fast opto-mechanical switch working over the spectrum from 700 nm to 1700 nm. The component is designed for optical switching in multimode fiber systems and is available in 2x1, 2x2, 1x4 and 1x8 variants. The highly reliable switching mechanism uses integrated micromirrors and features fast switching time below 5 ms and below 2 dB insertion loss.

The miniature package withstands rugged environments and is well suited for direct mounting on printed circuit boards. The switch submodules are qualified according to Telcordia GR 1221.

APPLICATIONS

- Optical Reconfiguration
- Instrumentation
- Test and Measurement

FEATURES

- reliable
- 0.7 –1.7 um range
- 5 ms response time
- 2 dB insertion loss
- 50 dB crosstalk
- small size
- non-latching



TECHNICAL SPECIFICATIONS	(Multimode	Varian	t)	
	Unit	Min	Тур	Max
Switch				
Wavelength Range	nm	700		1700
Insertion Loss ¹	dB		0.5	1.6
Crosstalk	dB		55	45
Backreflection	dB		45	35
Polarisation Dependent Los	s dB		0.07	0.20
Switching Time	ms		2	20
Switching Voltage	V			5
Fiber Pigtail			50/125/900	
Ū.	μm		62.5/125/900	
Durability	cycles		no wear out	
Package				
Power Consumption	mW		40	
Operation Temperature	°C	0		70
Storage Temperature	°C	-40		85
Size (L x W x H)	mm	-	76 x 93 x 9.5	
¹ measured at 1310 or 1550 nm. At 850 n				
Optical Port Selection			FROM PIN SIDE	
51 S2 S3 S4 S5 S6 S7 Port			76	1 1
0 5 x 5 x x x A	←		76	→ < → 11
5 x 0 5 x x x B				
5 x 5 5 x x x C 0 0 x 5 x x x D	▲ ♥ ◎		0	¢
x x x 0 0 0 x E			▞□♦∎♦₽₯∞□¶⊒ ¢∞□¶©≞ ℰ≧⊠≣ОО	Н
x x x 0 5 x 5 F	10.5	+5V		G
x x x 0 5 x 0 G x x x 0 0 5 x H		S7 S6		
	•	S5 0∨		
0 = 0 V (TTL or CMOS level)	547			F
5 = 5 V (TTL or CMOS level)	. ↓ •	ov		E
x = 0 V or 5 V 8	3	S4 +5 V		INPUT
	μų			D
	- 37	+5V		C
		S3 S2		
		S1 ≬V		
		Contact Pin	is: length >10 mm,	B
			diameter: 0.58 mm pitch: 2.54 mm	A
			centering 0.2 mm	1
		VIEW	FROM SIDE	
—	↑ [!	•//200		
_	↓			
	9.5			
	<u>ه</u> ۱		Contact:	
ORDERING INFORMATION			Contact: Sercalo microtechnolog	
SW1x8-62N (62.5 um graded index fiber)			Landstrasse 151, 9494 Principality of Liechtens	
SW1x8-50N (50 um graded index fiber)			Tel. +423 237 57 97 F	ax. +423 237 57 48
UNATED ON COUNT OF A LEADER INC.		I	www.sercalo.com	e-mail:info@sercalo.com

