

MULTIMODE 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 switch is available for single and multimode fibers. 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. The miniature package withstands rugged environments and is well suited for direct mounting on printed circuit boards.

The switch is built by cascading 1x2 switches which are qualified • according to Telcordia GR1221.

FEATURES

- reliable
- 1.5 dB insertion loss
- 5 ms response time
- 50 dB crosstalk
- miniature size
- non-latching

APPLICATIONS

- Optical Reconfiguration
- Instrumentation
- Provisioning

ORDERING INFORMATION SW1x16-62N (62.5 um core) SW1x16-50N (50 um core) Ordering Information: 800 Village Walk #316 Guilford, CT 06437 Ph: 203-401-8093 Email orders to: sales@xsoptix.com Fax orders to: 800-878-7282

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TECHNICAL SPECIFICATIONS (MULTIMODE VARIANT)						
Switch			Unit	Min	Тур	Max
Wavelength Range			nm	600		1700
Insertion Loss			dB		1.2	1.6
Crosstalk			dB		55	45
Backreflection			dB		45	35
Polarisation Dependent Los	S		dB			0.3
Switching Time			ms		2	20
Switching Voltage			V			5
Fiber Pigtail			μm		50/125/900 62 5/125/900	
Durability			cvcles		no wear out	
Package			-)			
Power Consumption			mW		75	150
Operation Temperature			°C	0		70
Storage Temperature			°C	-40		85
Size (L x W x H)			mm		175 x 105 x 10	
Ontical Part Selection					105	
S1 S2 S3 S4 S5 S6 Port					90	
0 5 x 0 0 x 1						
0 5 x 5 x 5 2 0 5 x 5 x 0 3				2.52		
0 5 x 0 5 x 4					+5V S6	ۍ ب
5 x 0 5 x 5 6					85 \$4 0V	
5 x 0 5 x 0 7						3 14
5 x 5 0 0 x 9				31		121
5 x 5 5 x 5 10 5 x 5 5 x 0 11					+5V S6 S5	7
5 x 5 0 5 x 12				0	84 0V	
0 0 x 0 0 x 13				5		6 10
0 0 x 5 x 0 15					+5V	8
0 0 x 0 5 x 16	175	169			86 85 84	
					DV	
0 = 0 V (TTL or CMOS level)				31		
5 = 5 V (TTL or CMOSlevel)					+5V	e e
x = 0 V or 5 V					55 54	
					5 V	5
						-
				01	+5V 83	
				00	M2	
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