

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) Contact:

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TECHNICAL SPECIFICATIONS	(Ml	ULTIMO	DE VAR	IANT)		
	•	Unit	Min	Тур	Max	
Switch			000		1700	
Wavelength Range		nm	600		1700	
Insertion Loss		dB		1.5	2.0	
Crosstalk		dB		55	45	
Backreflection		dB		45	35	
Polarisation Dependent Loss		dB		0	0.3	
Switching Time		ms		2	20	
Switching Voltage		V		50/105/000	5	
Fiber Pigtail		μm		50/125/900 62.5/125/900		
Durability		cycles		no wear out		
Package		Cycles		no wear out		
Power Consumption		mW		75	150	
Operation Temperature		°C	0	75	70	
Storage Temperature		С С	-40		85	
Size (L x W x H)		mm	-40	175 x 105 x 10	00	
Optical Port 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			25.5 2.54			16 16
0 5 x 0 5 x 4				+5V 58		15 1
5 x 0 0 0 x 5 5 x 0 5 x 5 6				55 54		
5 x 0 5 x 0 7				J V		4
5 x 0 0 5 x 8			31			//////////////////////////////////////
5 x 5 0 0 x 9 5 x 5 5 x 5 10			۲	+5V		11 12
5 x 5 5 x 0 11			0 0	50 85 84		-
5 x 5 0 5 x 12 0 0 x 0 0 x 13				0V		10
0 0 x 0 0 x 13 0 0 x 5 x 5 14			31			6
0 0 x 5 x 0 15				+5V		7 8
0 0 x 0 5 x 16	169			36		
				ý.		
0 = 0 V (TTL or CMOS level)			31			56
5 = 5 V (TTL or CMOSlevel)				•5V		3 4
x = 0 V or 5 V				56 35		
				v.		N
			31			, , , , , , , , , , , , , , , , , , ,
				50		
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