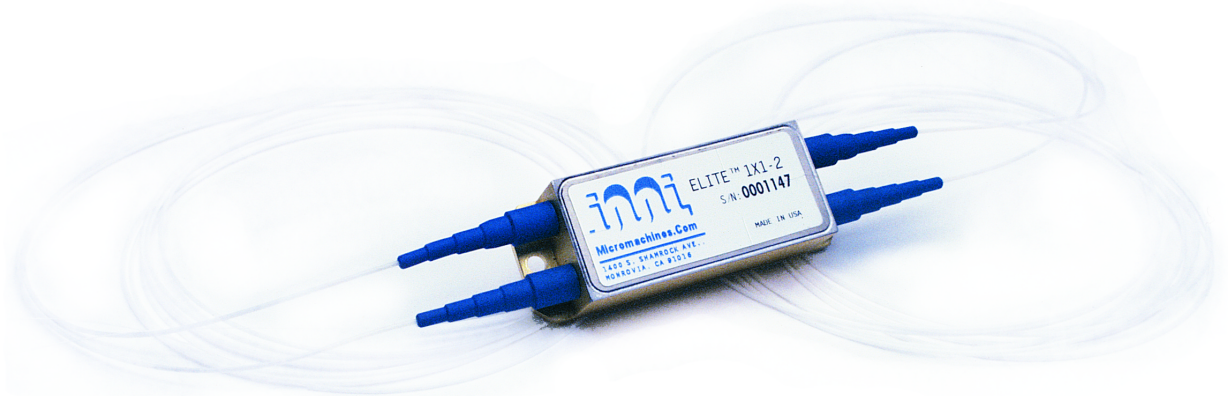


ELITE™ Dual 1 x 1 On/Off Switch



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The ELITE™ MEMS-based dual 1x1 switch is an on/off fiber switch with extremely low insertion loss and return loss. The device operates over both C and L bands. The switch is available in both hermetic and non-hermetic packages. On/off control voltages are 0 V and 5 V, respectively.

Applications

MEMs On/Off Switches provide a means of blocking an optical signal. They are most often used as safety shutters as well as to isolate sources during laser power up and tuning.

Operation wavelength range¹	both C and L band	
Switching time	< 10 ms	
Maximum optical input power	300 mW	
Operating life	> 10 years, > 10 ⁷ cycles	
Operating temperature range	-5° C to 70° C	
Storage temperature range	-40° C to 85° C	
Insertion loss²	On state	Off state
	< 0.5 dB (typical)	> 61 dB (min)
Return loss	< 1.0 dB (max)	
	> 50 dB	> 50 dB
PMD	< 0.1 ps	n/a
PDL	< 0.1 dB	n/a
Control voltage	0 V	5 V @ < 25 mA
Temperature dependent loss variation³	+/- 0.1 dB (max)	n/a
Wavelength dependent loss variation⁴	+/- 0.1 dB (max)	n/a
Size⁵ (W x L x H)	22 mm x 56 mm x 13 mm	

1. Switch can be optimized for either 1310 nm, or C and L bands.

2. Insertion loss specified without connectors.

3. Relative to 25° C.

4. Over the optimized wavelength band.

5. Excluding strain relief and connector pins.

The product shall conform to the requirements of Telcordia GR-1073.

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