

Fiber Optical Multi Channel Shutter eol N (N = 1 to 16)

The fiber optical shutter arrays are based on a proprietary micro-mechanical / microoptical design. This guarantees superior properties, wide flexibility for many applications and highest long term reliability.

The shutters are available for broad wavelength ranges from the visible to the infrared and with various fiber types.

Optical Features

- Low insertion loss
- Low PDL
- Excellent repeatability
- High optical isolation
- Ultra low back reflection
- Broad spectral range
- Short switching time

Package Highlights

- Flexible housing design
- Inhouse connectorization
- Implemented μ C allows different interfaces / control signals
- Low electric power consumption

Reliability

- Excellent long term reliability compliant with Telcordia GR 1073

Applications And Technology

The eol series has been developed to serve for the most demanding applications in telecommunication, testing and measurement. The shutters can be integrated in test beds for fiber optical transmission systems and can be controlled via various electronic interfaces.

The optomechanical design of the switch ensures an excellent optical performance combined with short on/off switching time due to refractive microoptical components and industry proofed high resonant actuators.



Specifications

Switch Version	IR	NIR	VIS
Operating wavelength [nm]	1260 – 1650	700 – 1100	400 – 690
Insertion loss max. (typ.) [dB]	1.0 (0.7)	1.5 (0.9)	1.5 (0.9)
Return loss [dB]	≥ 60	≥ 55	≥ 55
Crosstalk [dB]	≥ 55		
Repeatability [dB]	≤ 0.005	≤ 0.01	≤ 0.01
Polarization dependent loss [dB]	≤ 0.1		
Switching time (on/off) [ms]	≤ 2		
Guaranteed lifetime [cycles]	> 10 ⁸		
Switching frequencies [s ⁻¹]	≤ 50		
Operating voltage [V]	5		
Power consumption [mW]	< 300		
Operating temperature [°C]	0 to +60		
Storage temperature [°C]	-40 to +80		
Housing dimension (standard)*)	19" rack 2 HU		

For Requests Please Specify

- Number of channels [N = 1,2,3... 16]
- Spectral range operating wavelength range
- Fiber type [e.g. Corning SMF 28 type]
- Connector type(s) [e.g. LC, FC, SC, ST, MU, E2000]
- Electronic interface [e.g. TTL, RS-232, I2C, Ethernet, USB]
- Special requirements