

OSICS SWT

Optical Switch and Shutter

OSICS SWT is a full suite of fiber optic switch and shutter modules based on optical prism technology. These modules are perfect modules for use in laboratory or manufacturing environment to automate test set-ups and reduce measurement uncertainties due to optical connections.

Specifications

	SMF*1	PMF
Available Configurations		1x1; 2x(1x1); 1x2; 1x4; 2x2
Spectral Range (nm)	1260–1630	1480–1630*2 1240–1510*3
Insertion Loss*4*5	≤ 1 dB	≤ 1.5 dB
Polarization Dependent Loss*4	PDL ≤ 0.1 dB	PER ≥ 20 dB
Repeatability*5	≤ 0.005 dB	≤ 0.01 dB
Return Loss*4	> 55 dB	
On/Off ratio (1x1 Shutter Only)	≥ 80 dB	
On/Off ratio (2x(1x1) Shutter Only)	≥ 65 dB	
Crosstalk*5	≥ 55 dB	
Switching Time	30 ms typ.	
Guaranteed Lifetime (number of cycle)	> 10 ⁸	
Input/Output Fiber Type	SMF-28 fiber	PM15 or PM13
Connector Type*6	FC/APC narrow key	
Dimensions W x H x D	35 x 128 x 230 mm (1.4 x 5.0 x 9.0 in)	
Weight	1 kg (2.21 lb)	
Temperature Range	+15 to +35 °C (+59 to +95 °F)	

*1: Specifications apply for wavelengths not equal to any water absorption line

*2: On PM15.

*3: On PM13.

*4: Typical values including connectors.

Maximum insertion loss is 1.4 dB for SMF and 2.0 dB for PMF.

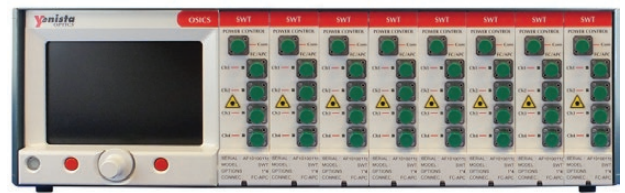
*5: On the whole wavelength range.

*6: For PMF, slow axis is aligned to the connector key.



Key Features

- Low insertion and polarization dependent loss
- Excellent repeatability
- High optical isolation
- Low back reflection
- Broad spectral range
- Switch time of 30 ms
- Single slot module



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