

OSW 01x02 Optical Switch

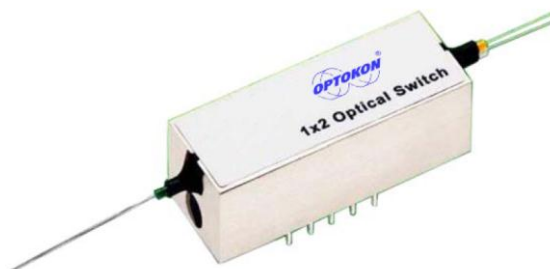
NEW

Description:

The OPTOKON OSW Optical Switches are based on opto-mechanical technology with proven reliability. With the state-of-the-art technology performance of OSW Optical Switches is optimized for a wide range of fiber optic applications.

Features:

- Low insertion loss
- High port isolation
- Small size
- High reliability
- SM and MM available
- Low PDL
- RoHS compliance



Applications:

- Telecommunications – optical network protection and restoration
- Reconfigurable add/drop multiplexers
- Wavelength router
- Optical network monitoring
- Transmission equipment protection
- Testing instruments

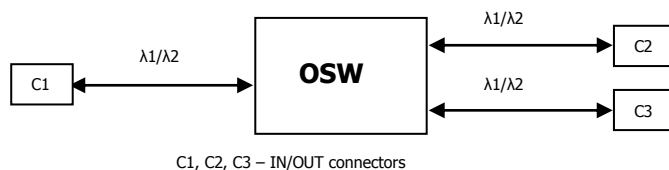
Technical specifications:

Electrical	Singlemode	Multimode
Coil resistance (Ω)	125 $\pm$ 10%	
Operating current (mA) typ.	40 $\pm$ 10%	
Operating voltage (V) typ.	5.0	
Operating voltage (V) range	4.5 – 5.5	
Power consuption (W) typ ¹ .	0.2	
Electro-Optical		
Wavelength range (nm)	1280 – 1340	850 / 1300
	1520 – 1625	
Insertion loss (dB) typ.	$\leq$ 0.6	$\leq$ 0.5
Insertion loss (dB) max.	$\leq$ 1.0	$\leq$ 0.8
Back reflection (dB)	$\leq$ -45	-
PDL (dB)	$\leq$ 0.1	-
Crosstalk (dB)	$\leq$ -80	
Switching time (ms)	$\leq$ 5	
Repeatability (dB)	$\pm$ 0.05	
Mechanical & Environmental		
Operating temperature ($^{\circ}$ C)	-5 to +70	-20 to +75
Humidity (% RH)	5 - 85	
Durability (cycles)	$>$ 10 ⁷	
Dimensions (mm) LxWxH	30x11x8.8	
Weight (g)	$<$ 20	

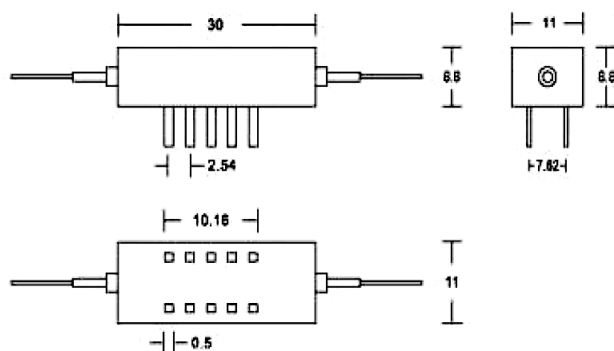
Note:

- 1) When +5 V DC signal is applied to only coil
- 2) All specifications referenced without connectors
- 3) Measured at 1550 nm, add 0.2 dB for IL at 1310/1550 nm dual wavelength

Block diagram:



Outline drawing:



Ordering Code:

OSW - 01x 02 - X - XXX - XXX - NC-NC

Port configuration

01x01
01x02
02x02
01x04
02x04
01x08
01x16

Operating function

L latching
N non latching

Fiber type

SM SM 9/125 μm (G.652D)
OM1 MM 62.5/125 μm
OM2 MM 50/125 μm
OM3 MM 50/125 μm

no input and output connectors
connector type - according to CON_14-01
(Jumper Ordering Code)

Fiber coating

BFS bare fiber 250 μm
LTS Fiber 0.9 mm, loose tube

Additional packaging

CAPM OPTOKON cassette
RM rack mounted unit (MCNP-1U)