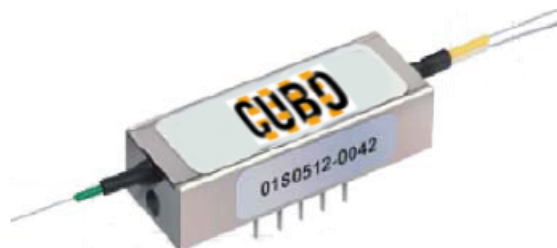


SWITCH-Cubes

>Electro-mechanical switch 1x1 or 1x2, single mode and multi mode

Features

- Smallest size
- Low insertion loss
- Fast switching speed
- High reliability
- Single mode / multi mode available
- Low PDL
- RoHS compliance



Applications

- Optical network protection and restoration
- Reconfigurable add/drop multiplexers
- Wavelength router
- Optical network monitoring
- Transmission equipment protection
- Research and development

Description

Cubo's 1x1 / 1x2 Optical Switches are based on opto-mechanical technology with proven reliability. With the state-of-the-art technology, the performance is optimized for a wide range of fiber-optic applications.

Fully complied with Telcordia GR-1073-CORE and complied with applicable items of Telcordia GR-1221-CORE standard.

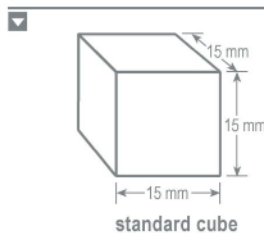
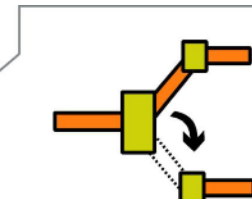
Technical Specifications

Electro-Optical Characteristics

Parameter	single mode	multi mode
Wavelength Range (nm)	1280 - 1340 1520 - 1625	850 / 1300
Insertion Loss (dB), typ.	≤ 0.6	≤ 0.5
Insertion Loss (dB), max.	≤ 1.0	≤ 0.8
Back Reflection (dB)	≤ -45	-
PDL (dB)	≤ 0.1	-
Cross-Talk (dB)	≤ -80	
Switching Time (ms)	≤ 5.0	≤ 5.0
Repeatability (dB)	± 0.05	



Our SWITCH-Cubes switch and control your data flow.



Cube Optics AG



SWITCH-Cubes

> Electro-mechanical switch 1x1 or 1x2, single mode and multi mode



Mechanical & Environmental

Parameter	single mode	multi mode
Operating Temperature Range (°C)	- 5 - 70	- 20 - 75
Humidity (%RH)	5 - 85	
Durability (cycles)	> 10 ⁷	
Dimensions (HmmxWmmxLmm)	8.8x11x30	
Weight (g)	< 20	

1. All Specifications referenced without connectors

2. Measured at 1550 nm

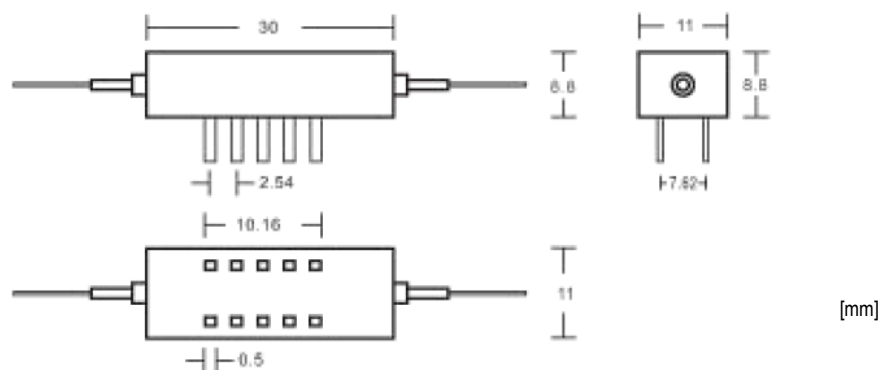
3. Add 0.2 dB for Insertion loss in 1310/1550 nm dual wavelength

Electrical Characteristics

Parameter	single mode	multi mode
Coil Resistance (Ω)	125 (±10%)	
Operating Current (mA), typ	40 (±10%)	
Operating Voltage (V), typ.	5.0	
Operating Voltage (V), range	4.5 - 5.5	
Power-Consumption (W), typ *	0.2	

* When + 5V DC signal is applied to only coil

Outline Drawing



Ordering Information

CUBO										-		-		-		-		-		-	
Number of Inputs 1	Number of Outputs 1 2		Operating Function L = Latching N = Non-Latching		Fiber type 9 = 9/125 μm, Corning SMF-28 50 = 50/125 μm 62 = 62.5/125 μm		Fiber cabling B = Bare fiber L = 0.9 mm Loose Tube		Connector Type 1 = none 2 = FC/PC 3 = FC/APC 4 = SC/APC 5 = SC/PC 6 = MU/PC 7 = ST/PC 8 = LC/PC 9 = SC/UPC A = MT/RJ B = MU/UPC C = FC/UPC												

is specification might be changed without notice.

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