SWITCH-Cubes

> Electro-mechanical switch, 2x4, single mode and multi mode

CUBO

Features

- Wide choice of configurations
- Compact size
- Low crosstalk
- RoHS compliance



Applications

- Optical communications
- Network monitoring
- Automatic optical testing
- Test equipment
- Research and development
- Signal routing

Description

Cubo's 2x4 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.

Design is based on worldwide telecommunications, data communications, system monitoring and computer testing requirements.

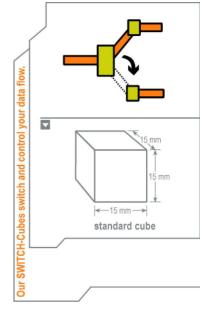
Fully complied with Telcordia GR-1073-CORE and complied with applicable items of Telcordia GR-1221-CORE standard.

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), typ.	≤-45	-	
PDL (dB)	≤ 0.1	-	
Cross-Talk (dB)		≤-60	
Switching Time (ms)	≤5	≤5	
Repeatability (dB)		± 0.05	







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Mechanical & Environmental

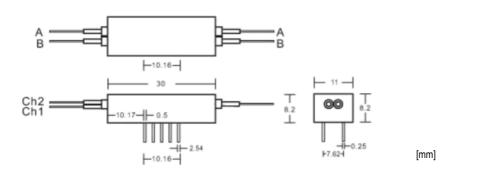
Parameter	2x4
Operating Temperature Range (°C)	- 5 - 70
Humidity (%RH)	5 - 85
Durability (cycles)	> 10 ⁷
Fiber pigtail	S. M. Fiber
Dimensions (HmmxWmmxLmm)	8.2x11x30
Weight (g)	< 20

Electrical Characteristics

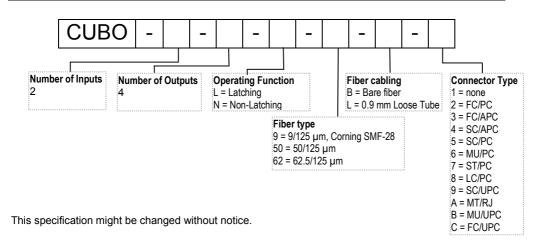
Parameter	2x4
Coil Resistance (Ω)	125 (±10%)
Operating Current (mA), typ	40 (±10%)
Operating Voltage (V), typ.	5.0
Operating Voltage (V), range	4.5 - 5.5
Power-Consumption (W), typ *	0.2

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

Outline Drawing



Ordering Information



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^{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