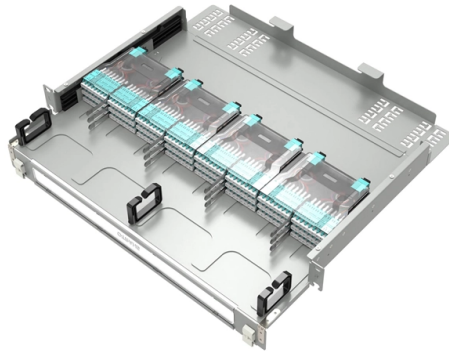


Fiber Optic Switch 3101887Z Space



AI Overview

The Fiber Optic Switch 3101887Z Space is a space-qualified optical switch designed for high-reliability applications, likely using hollow-core fiber technology for low-loss, high-speed light routing.

Overview The 3101887Z Space switch is associated with hollow-core optical fibers, which are optimized for minimal signal loss and high-speed light transmission, making them suitable for aerospace and satellite applications. These switches are designed to control light paths within fiber optics, ranging from simple on/off configurations to complex matrix arrangements, allowing precise routing of optical signals.

Key Features

- Space Qualification:** Engineered to withstand the harsh conditions of outer space, including radiation, temperature extremes, and vibration.
- Low Insertion Loss:** Typically below 0.2 dB, ensuring minimal signal degradation during switching.
- Fast Switching Speed:** Capable of switching in nanoseconds (as fast as 10 ns), suitable for high-speed optical communication and quantum computing applications.
- Broad Wavelength Range:** Operates across ultraviolet to infrared spectra, supporting diverse optical systems.
- Fiber Compatibility:** Works with single-mode, multimode, and hollow-core fibers, providing flexibility for various optical setups.
- Control Interfaces:** Can be operated via pushbutton, TTL, USB, RS232, or custom interfaces, allowing integration into automated systems.

Applications The 3101887Z Space switch is suitable for:

- Satellite and spacecraft optical networks
- Quantum communication systems
- High-reliability aerospace instrumentation
- Undersea and remote optical networks
- Laboratory and research setups requiring precise optical routing

Technical Considerations Fiber optic switches like the 3101887Z typically use micro-mechanical or micro-optical designs, involving tiny mirrors, prisms, or fiber end shuffling to redirect light paths. These designs ensure long-term stability, high precision, and low optical loss, which are critical for space applications where maintenance is impossible. Hollow-core fibers...

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The switches are available for a broad spectrum ranging from ultraviolet to infrared, and can be manufactured and operated with virtually any fiber (both cascaded

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Fiber-optic Switches Author: the photonics expert Dr. Rüdiger Paschotta (RP) Expert Buyer's Guide for Fiber-optic Switches Selection criteria, tradeoffs, and 14

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