

Optical Switch: OS-1

Overview

OS-1 series optical switch can realize optical channel's option through electric signal control. It adopts fiber collimator with small insert loss to make optical path's switching, coupling, to improve the reliability and stability of optical switch largely. It also can be set automatic status and manual switching status by the front panel, and can be used in three switching modes: 1x1 (ON/OFF), 2x1(1x2) or 2x2.

This equipment mainly applies for optical signal switching in optical transmission network which needs high-reliable operation, such as hot backup automatic switching of 1550nm optical transmitter and fiber amplifier in the front-end of CATV system, key protection of optical route switching in optical path, self-healing ringnet. Also it can be used in OADM, OXC, system monitoring and fault protection.

Specifications

Items	Units	Specifications
Switch type		1×1 (on-off), 2×1(1x2), 2×2
Wavelength range	nm	1260~1610
Insertion loss	dB	≤1.0
Connector loss	dB	≤0.5
The switching threshold of optical power	dBm	-10~+25 (0.1dB step)
Difference value setup range of Ch A and B	dB	0~5(0.1dBm step)
Cross talk	dB	≥55
Max. Carrying power	mW	500
Return loss	dB	≥55
Polarization related loss	dB	≤0.1
Repeatability	dB	≤±0.05
Switch time	ms	≤15
Optical connector		FC/APC or SC/APC
Supply voltage	V	AC110~265 or DC48
Power consumption	W	≤5
Operating temperature	°C	-10~50
Operating humidity	%	5~95
Storage temperature	°C	-40~+85
Weight	kg	2.5
Dimension	mm	483×300×44.5