

VARIABLE OPTICAL ATTENUATORS

Manual Variable Optical Attenuator Module

Hand-adjusted attenuator covering 0.4 dB to 60 dB with 0.1 dB setting accuracy, at 850, 1310 and 1550 nm.



Key Features

- Attenuation range 0.4 dB to 60 dB
- Setting accuracy 0.1 dB
- No power required — the setting holds mechanically
- Insertion loss 0.4 dB at 1550 nm
- Covers 850, 1310 and 1550 nm

Applications

- Fixed pad replacement in lab and production setups
- Receiver input leveling during bring-up
- Loss budget emulation on test benches
- Field commissioning of optical links

Overview

A mechanically adjusted attenuator for setting a level once and leaving it. The adjustment resolves to 0.1 dB across a 0.4 dB to 60 dB range, and holds that setting without power.

Insertion loss is wavelength dependent and lowest in the C band: 0.4 dB at 1550 nm, 0.6 dB at 1310 nm and 0.8 dB at 850 nm.

Specifications

Optical Performance

PARAMETER	VALUE	UNIT	CONDITIONS
Attenuation Range	0.4 – 60	dB	
Adjustment Accuracy	≤ 0.1	dB	
Insertion Loss	≤ 0.4	dB	1550 nm
Insertion Loss	≤ 0.6	dB	1310 nm
Insertion Loss	≤ 0.8	dB	850 nm

Order or request a quote

+1 (619) 500-4899 · sales@lightwitphotonics.com
lightwitphotonics.com
Monday–Friday, 8:00 AM – 6:00 PM Pacific

Lightwit Photonics Co., Ltd.

Datasheet issued 2026-09-06
Rev. controlled document

Specifications are subject to change without notice and do not constitute a warranty. Confirm all parameters with Lightwit Photonics sales before ordering.