## In-Line Attenuators

## Description:

The In-Line attenuators provide a fixed level of attenuation and feature excellent return loss. Low cost and performance determine them for universal using in optical networks.


## Features:

- Return loss $>50 \mathrm{~dB}$ on customer's demands
- Insertion loss
- Fiber or cable version
- Pigtail with connector by specification


## Application:

- Fiber optic systems
- Receiver padding for optical receiver protection
- Optical power equalization
- Linearity and dynamic range testing in laboratory equipment


## Specifications:

| Loss | $5,10,15,20,25,30 \mathrm{~dB} \pm 10 \%$ |
| :--- | :--- |
| Wavelength SM | $1310 \mathrm{~nm}, 1550 \mathrm{~nm}, 1625 \mathrm{~nm}$ |
| Wavelength MM | $1300 \mathrm{~nm}, 850 \mathrm{~nm}, 820 \mathrm{~nm}$ |
| Return loss | $>50 \mathrm{~dB}$ |
| Type | Fiber, Cable |
| Length | by specification |
| Operation temperature | -40 to $75^{\circ} \mathrm{C}$ Temperature stability $0.005 \mathrm{~dB} /{ }^{\circ} \mathrm{C}$ |

## Dimension:

Fiber Attenuator

```
Length - 45 mm
\varnothing - 3mm
```

Cable Attenuator

$$
\begin{aligned}
& \text { Length }-110 \mathrm{~mm} \\
& \varnothing \quad-7 \mathrm{~mm}
\end{aligned}
$$



## Ordering Code:


2. duplex 5 dB MM attenuator ( 850 nm )

FAD - $05-50-28$ OM1 - SL - 003
3. hybrid 5 dB SM attenuator ( 1550 nm )

FA - $05-15-28$ S2D - UPC/USC - 003

Note: Other connector types - on request
(C)* Without this mark is standard position 1 m from connector, with C is position in center.


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