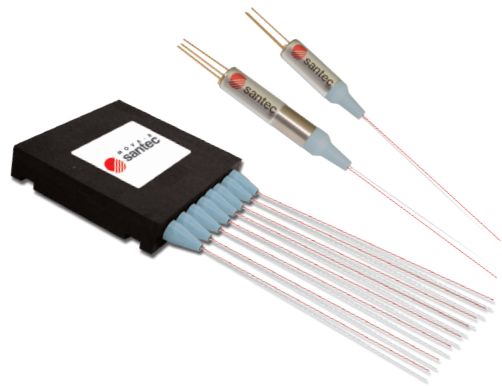


# High Speed MEMS Attenuator MOVA-H

Santec's MEMS (Micro Electro Mechanical Systems) Attenuator based attenuator uses tilting mirror technology. High Speed MEMS attenuator (MOVA-H) is driven by Low power consumption and response speed is ultra fast.

Our MEMS technology is simple and unique MEMS mirror structure for high yield chip production and stable operation as variable optical attenuator.

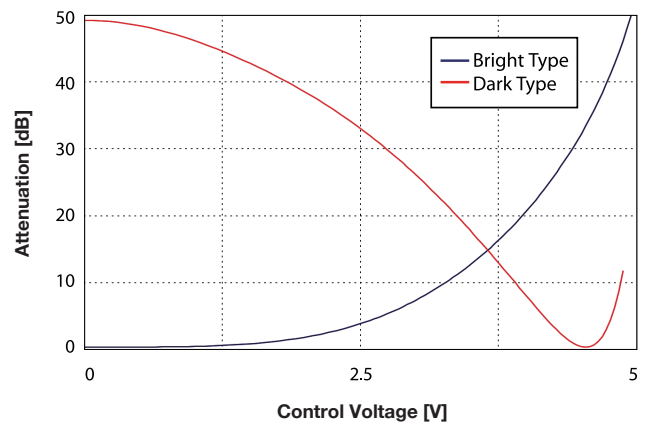
Coupled with laser-welded packaging, this provides both environmental reliability and operational stability design with excellent optical properties.



## Features

- ▶ Ultra fast response speed
- ▶ 5V Driving
- ▶ Low Power Consumption
- ▶ World most compact package is available
- ▶ Proprietary stiction-free structure
- ▶ Bright and Dark Type Available
- ▶ RoHS Compliant

## Typical Data

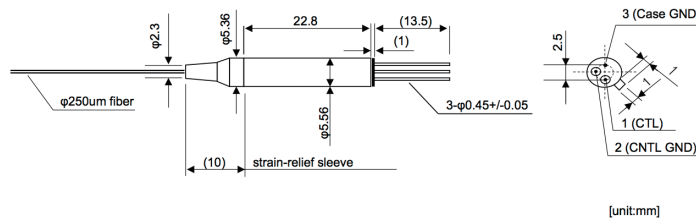


## Specifications

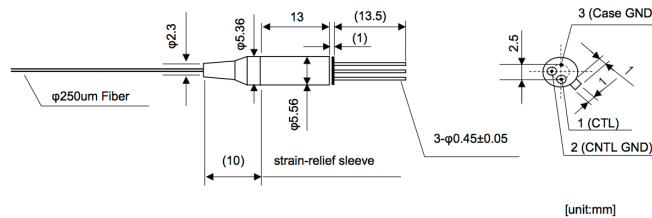
| Parameter                   | Unit |      | Spec        | Note                     |
|-----------------------------|------|------|-------------|--------------------------|
| Wavelength Range            | -    | nm   | 1530 - 1570 | C band                   |
|                             |      |      | 1570 - 1610 | L band                   |
| Insertion Loss              | Max. | dB   | 0.8         | w/o connectors           |
| Max. Attenuation            | Max. | dB   | 30          | -                        |
| PMD                         | Max. | psec | 0.1         | -                        |
| Response Time               | Max. | msec | 3 (Typ. 2)  | 10-90%                   |
| Optical Power Handling      | Max. | mW   | 300         | -                        |
| Driving Voltage             | Max. | V    | 6           | -                        |
| Storage Temperature Range   | -    | °C   | -40 to 85   | <85%RH, Non condensation |
| Operating Temperature Range | -    | °C   | -5 to 70    | <85%RH, Non condensation |
| Power Consumption           | Max. | mW   | 0.1         | -                        |
| Fiber Length                | -    | mm   | 1,000±100   | 0.25mm SMF               |

## Dimension

### Standard Package



### Compact Package



## Ordering Code

**MOVA-H**<sup>\*1</sup> - **A** - **B** - **C** - **D**

A = Channel  
 B = Activation Type  
 C = Wavelength range  
 D = Connector Type

1 : Single channel / 8 : 8 channel array

**B** : Bright type / **D** : Dark type

**C** : C-band / **L** : L-band

**00** : No connector / **FS** : FC-SPC / **FA** : FC-APC / **SS** : SC-SPC /  
**SA** : SC-APC / **MU** : MU-SPC / **MJ** : MUJ-SPC / **LC** : LC-SPC

\*1: Compact Package code is "MOVA-HC-"

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