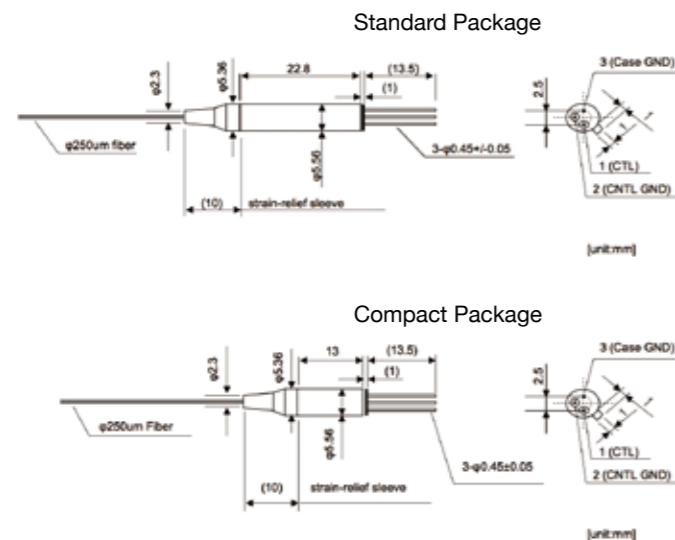


■ Specifications

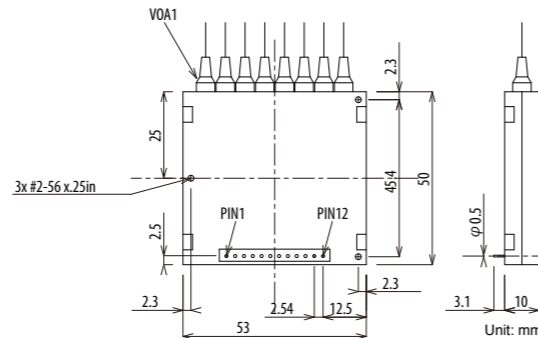
Parameter	Unit		Spec	Note
Wavelength Range	-	nm	1530 - 1570	C band
			1570 - 1610	L band
Insertion Loss	Max.	dB	0.8	Excluding Connectors
Max. Attenuation	Max.	dB	30	Shutter (>40dB) option available
Wavelength Dependent Att.	Max.	dB	0.35	@<20dB Attenuation
Polarization Dependent Att.	Max.	dB	0.3	@<20dB Attenuation
PMD	Max.	psec	0.1	
Response Time	Max.	msec	10	10-90%
Optical Power Handling	Min.	mW	300	
			20	MOVA-1 (20v Type)
			6.5	MOVA-H-1 (6.5v Type)
Driving Voltage	Max.	V	7.5	MOVA-8
Operating Temperature	-	°C	-5 to 70	
Power Consumption	Max.	mW	0.1	MOVA-1
			125	MOVA-8
Fiber Length	-	mm	1000±100	0.25mm SMF

■ Dimensions

MOVA-1/MOVA-H-1



MOVA-8



Pin Assignment

Pin#	Function	Pin#	Function
1	Vcc	7	Ch5
2	Ch1	8	GND
3	Ch2	9	Ch6
4	GND	10	Ch7
5	Ch3	11	GND
6	Ch4	12	Ch8

■ Ordering Code

MOVA^{*1}-**A**-**B**-**C**-**D** / MOVA-H^{*2}-**A**-**B**-**C**-**D**

- A = Channel 1 : Single channel / 8 : 8 channel array
- B = Activation Type B : Bright type / D : Dark type
- C = Wavelength range C : C-band / L : L-band
- D = Connector Type 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-C-" *2: Compact Package code is "MOVA-HC-"

www.santec.com E-Mail : sales@santec.com

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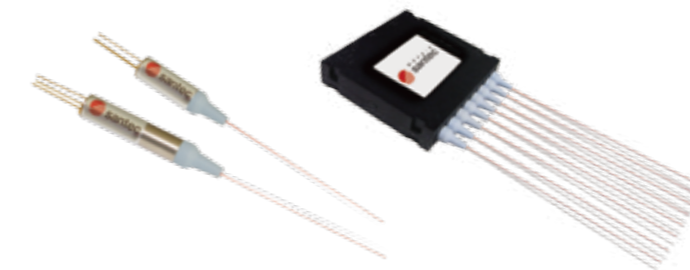


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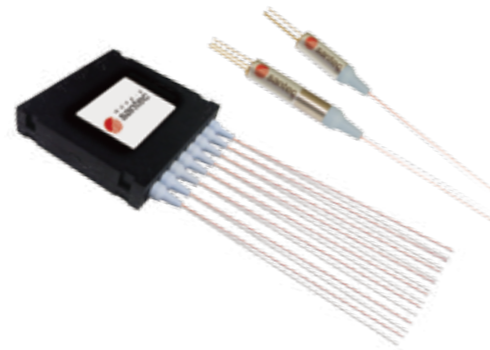
MOVA Series Product Guide





MEMS VOA (MOVA series) Product Lineup

Santec's MEMS based attenuator is available in a variety of specifications for any DWDM application. Optical properties are excellent with low PDL and low wavelength dependence. Santec's tilting mirror design coupled with laser welded packaging ensures a reliable, stiction-free device. It is available in either single or eight channel modules or custom packaged as required. Silicon MEMS devices are robust, withstanding repeated switching, wide temperature changes and mechanical shock without failure. Operational stability and long-term reliability are ensured with Telcordia compliant packagings.



Features

- ▶ Convenient Control Voltage
- ▶ Excellent optical performance
- ▶ Low power consumption
- ▶ Fast response
- ▶ High durability (Up to 1,000million cycles)
- ▶ Stiction-free structure
- ▶ High reliability and stability

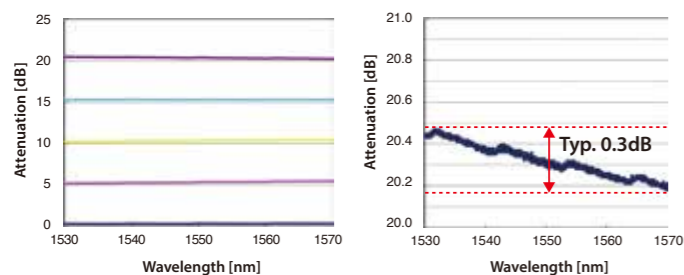
Product Lineup

Convenient control voltage type

- 6.5V type : 5V(20dB ATT), 6.5V(40dB ATT)
- 20V(Standard) type : 15V(20dB ATT), 20V(40dB ATT)
- Excellent shock/vibration performance
- It is equivalent to standard 20V type

Broadband type

- 0.3dB WDL@10dB attenuation
- 0.4dB WDL@20dB attenuation

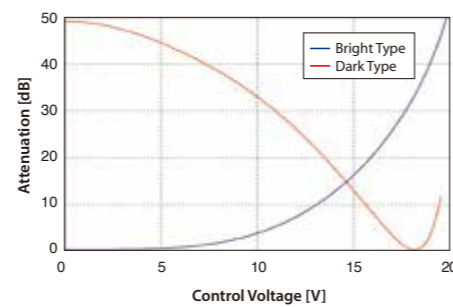


Multi-channel/Short package

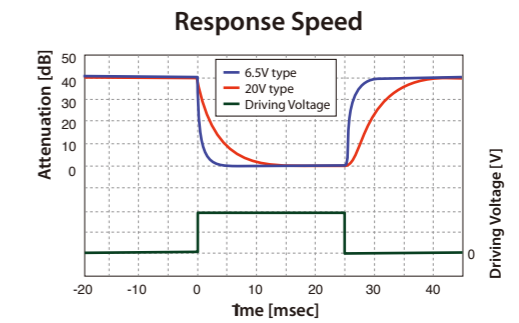
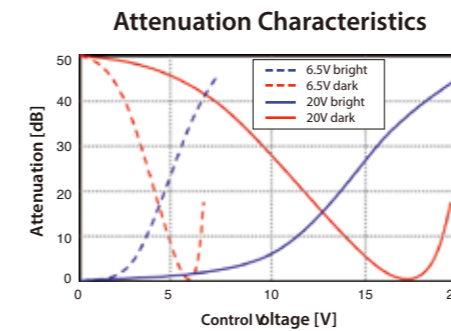
- 8 channels package available
- Fiber ribbonized available
- 10mm short package available
- Suitable for high density installation

Dark/Bright type

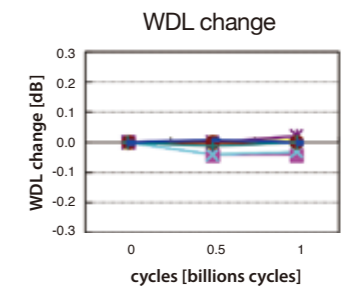
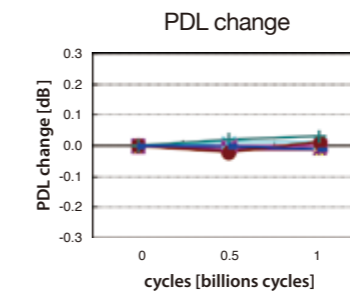
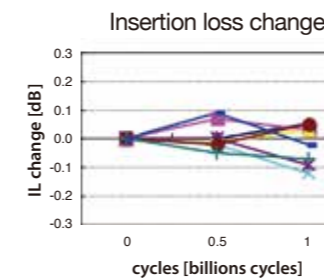
- Normally On/Off



- Polarization maintain type
- >18dB polarization extinction ratio
- Shutter function
- >40dB shutter isolation
- Small bending radius fiber available
- R=5mm



Durability Characteristic



Typical Operational Vibration Characteristic

