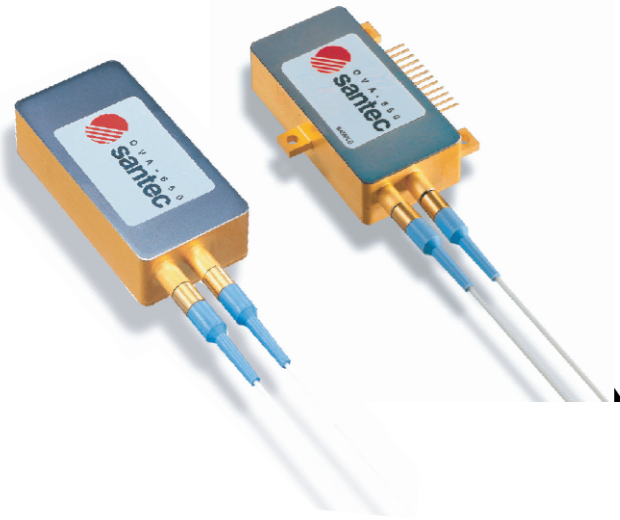


OPTICAL VARIABLE ATTENUATOR OVA-650



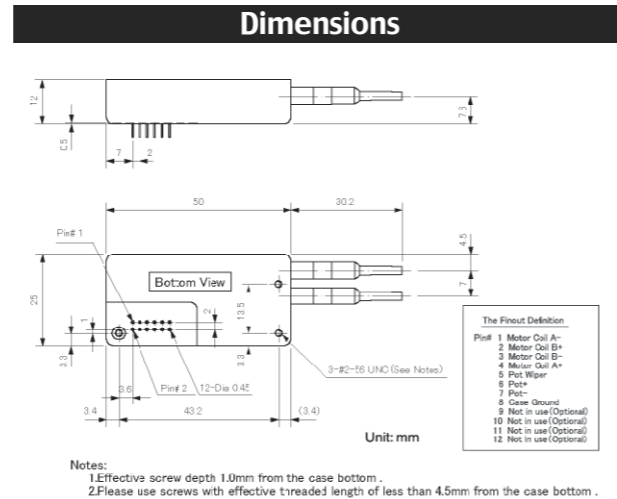
The OVA-650 is a compact variable optical attenuator that uses a stepper motor for accurate electrical control. The unit has high resolution, low insertion loss, low PDL, and exhibits extremely low wavelength dependence. Two package designs are available with effective height of 12mm and 8mm (Dual-line pins on the bottom, Single-line pins on the side with screw tabs) respectively. This device can be easily mounted onto a printed circuit board for system integration.

Features

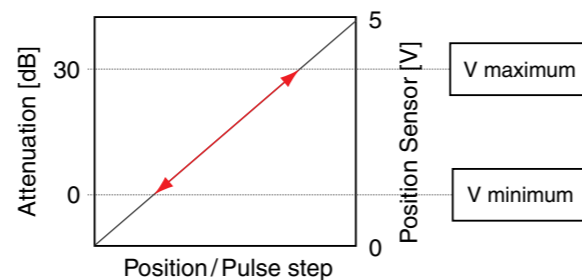
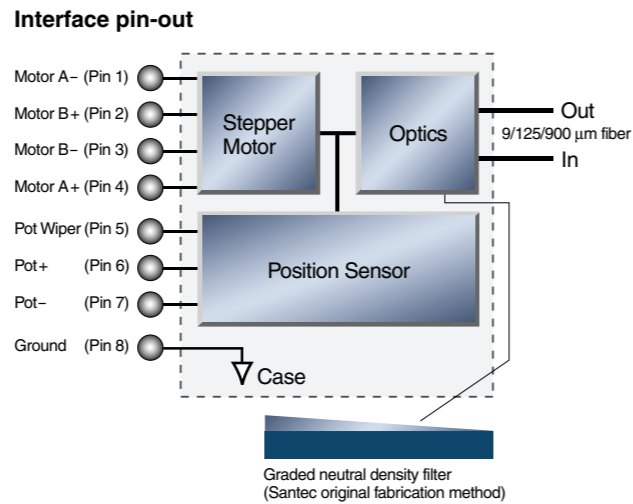
- ▶ Low loss, low PDL, low wavelength dependence
- ▶ High reliability (Hermetically sealed)
- ▶ Latching operation
- ▶ Compact size suitable for system integration
- ▶ Optional tap power monitor available (Preliminary)
- ▶ Telcordia GR-1221 qualified

Applications

- ▶ Power equalization or gain-tilt control in optical amplifiers
- ▶ Transmitter power control
- ▶ Receiver power control
- ▶ Power control in OADM's.



Configuration



Optical Specifications

Parameter	Units			Note
Max Attenuation Range	dB	15	30	
Resolution	Max. dB	0.1		
Insertion Loss	Max. dB	0.6		Excluding connectors
Return Loss	Min. dB	50		
Polarization Dependent Loss (PDL)	Max. dB	0.2		
Wavelength Dependence of Attenuation	Max. dB	0.2 (0-15 dB Atten.) 0.35 (<30 dB Atten.)		over 1525 ~1575 nm
Temperature Dependence of Attenuation	Max. dB	0.15		Relative to 25 deg°C
Polarization Mode Dispersion (PMD)	Max. psec	0.1		
Maximum Rated Optical Input Power	dBm	23		
Response Speed	Max. ms	100		To change 3 dB Atten.
Repeatability of Attenuation Setting	Max. dB	0.1		
Backlash	Max. dB	0.2		
Operating Temperature	°C	0 to + 70		< 95% humidity

Electrical Specifications

Maximum Electrical Power Consumption	Max. W	2.5	
Maximum Electrical Power to Hold	Max. mW	10	
Position Sensor	Max. k	12	
Fiber		SMF, 0.9 Ø, 1m long. No connector or FC-SPC/APC	
Size	mm	50 x 25 x 12	
Weight	Max. g	50	

Ordering Code

