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VAC – Variable Attenuator with Connector

REV. B

Revised Date: Aug. 11, 2011

Dimensions:

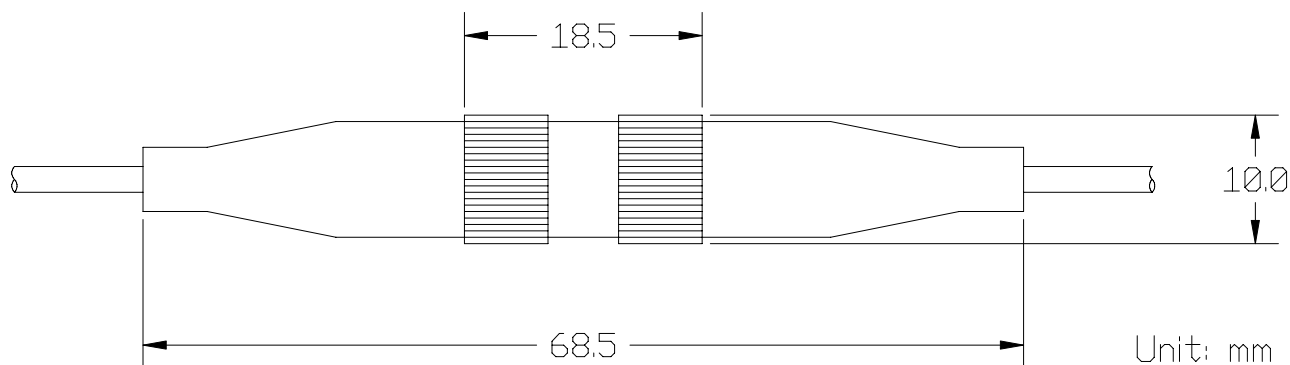


Fig. 1-1 VOA-1000

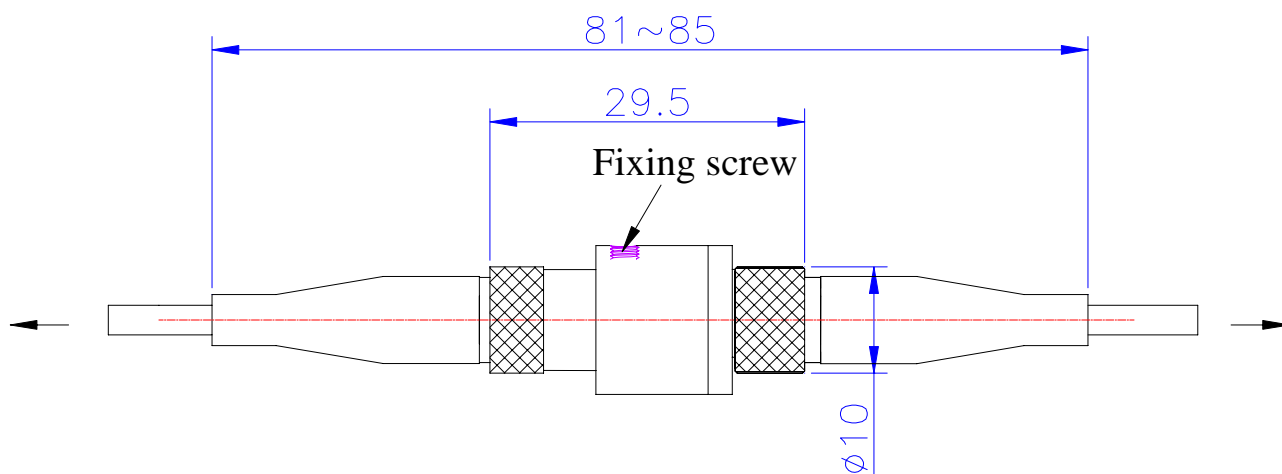


Fig. 1-2 VOA-2000

Rotating Operation Instructions:

The VAC mechanism increases or decreases attenuation by rotating the “right-hand” side of the device. The left-hand side of the device remains fixed at its original position. The fixing screw locks and secures the desired attenuation value in place. A brief illustration of the rotating mechanics is shown in Fig. 2 below.

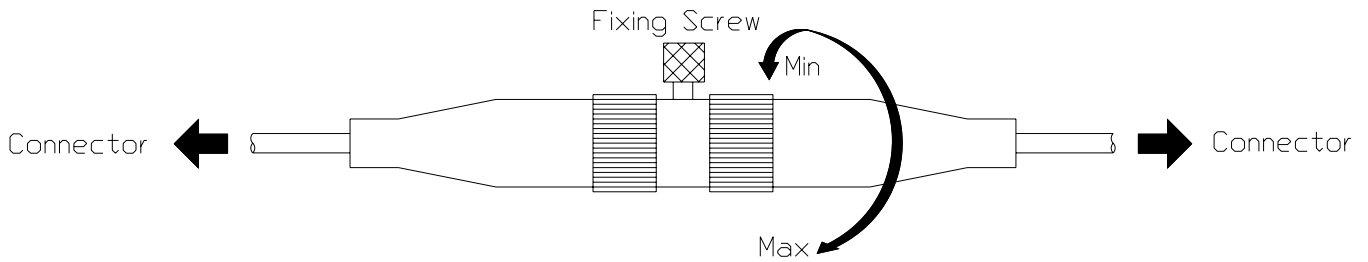
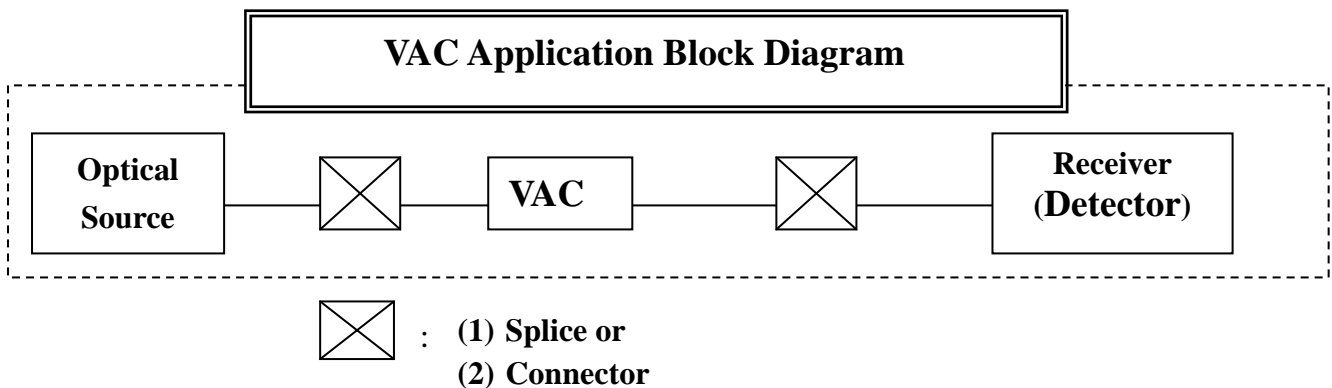


Fig. 2

1. Clean the connector ends, then connect the VAC to an optical source and detector. It is possible to set desired attenuation using mechanical splices. See diagram below for set-up.



2. Loosen the Fixing Screw by lifting and turning clockwise, approximately 2 complete rotations.
3. Rotate the right-hand side of the VAC to adjust the attenuation value from Min to Max – see arrows for direction to set the desired attenuation value (sometimes micro-rotation is necessary).
4. Fasten the fixing screw securely to lock the desired attenuation in the VAC.

5. The attenuation value may be adjusted after installation by repeating steps 2, 3 and 4.

Optical Performance:

Item	Value		Remark
Attenuation Range (dB)	1	SM 1~12 for VOA-1000	Cable: 0.9/ 2.0/ 3.0 mm Connector: FC/PC, APC SC/PC, APC ST, MU & LC and other
	2	SM 1~20 for VOA-1000	
	3	SM 1~35 for VOA-2000	
	4	MM 1~20 for VOA-2000	
Reflectance (dB) without Connector	>= 60 for SM		
Wavelength Dependant Loss (dB)	1	0.5	RL:(SM) >= 45dB to PC >= 50dB to APC
	2	Required	
Operating Wavelength (nm)	SM:1310nm and/or 1550nm MM:850nm and/or 1310nm		
Resolution (dB)	1	0.2	
	2	Required	