

PSS DOA SERIES

Digital optical attenuator ▶▶▶



Product Introduction

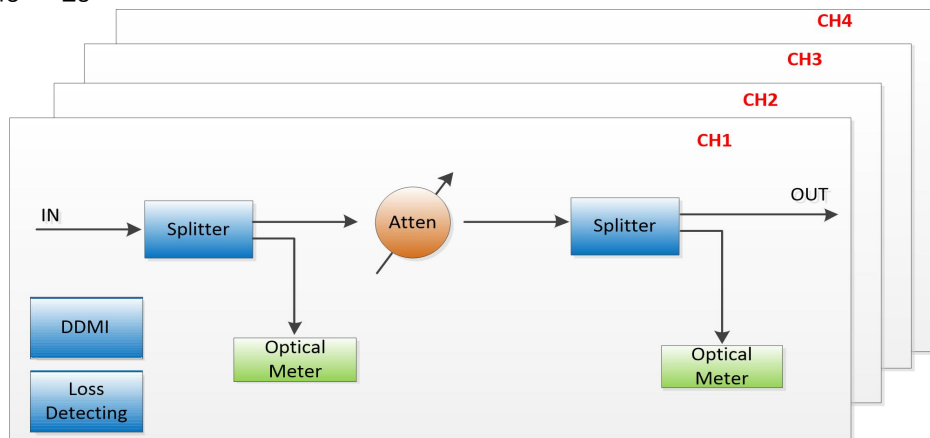
The PSS digital optical attenuator series has single-mode (1270nm~1610nm) and multi-mode (850nm) multi-version applications such as single, four, and eight channels, and has the characteristics of low insertion loss, high attenuation accuracy and repeatability; simultaneously optical input and output end is integrated with a high-precision optical power meter, can detect the input and output optical power in real time; Various kind of communication interfaces, support RS232, LAN or GPIB interface. The equipment can be used for the application testing of various rate optical modules, as well as various integrated tests in the fields of optical communication and CATV, to satisfy the different application needs of the customers.

Product application

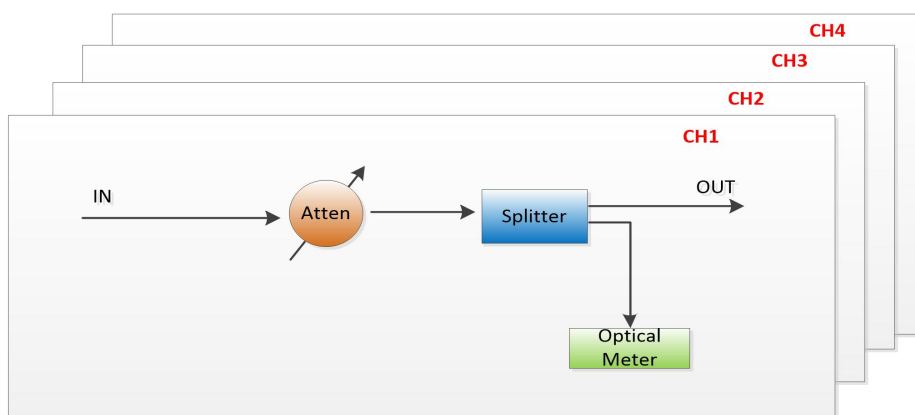
- Optical Modules Test
- ROSA/BOSA Optical device Test
- System and device optical loss simulation
- Laboratory and Scientific Research

Product features

- Low insertion loss, $\leq 1.5\text{dB}$ (1310nm/850nm)
- Attenuation range 0~40dB (or customized range)
- High attenuation accuracy, $\pm 0.05\text{dB}$ (single mode), $\pm 0.2\text{dB}$ (multi-mode)
- High repeatability of attenuation, $\pm 0.05\text{dB}$ (single mode), $\pm 0.1\text{dB}$ (multi-mode)
- Wide detection range of the input and output optical power meter, with good linearity
- High precision of fixed power output
- Support LOS signal hysteresis test, including the power point and level size of LOS alarm and de-alarm, as well as hysteresis interval, the test is completed by the lower computer, typical test time $< 1\text{s}$



Internal optical path diagram of multi-channel single-mode optical attenuation with power monitoring



Internal optical path diagram of multi-channel, multi-mode optical attenuation with power monitoring

Technical parameters

Parameters	Description/Value			
Wavelength range	1270nm~1610nm		850nm±20nm	
Calibrate the wavelength	1270nm、1290nm、1310nm、1330nm、1490nm、1550nm, Other wavelengths can be custom calibrated		850nm	
Product model	PSS DOA/DOA24041/DOA14081		PSS DOA-M1/DOA13042/DOA13082	
Number of channels	1	4/8	1	4/8
Insertion Loss	≤2dB	≤1.5dB	≤2dB	≤1.5dB
Attenuation Range	0-60dB	0-40dB	0-60dB	0-30dB
Attenuation accuracy	≤±0.2dB(0 ~ 40dB) ≤±0.3dB(40 ~ 60dB)	±0.05dB	±0.2dB	
Attenuation repeatability	0.1dB	±0.05dB		±0.1dB
Input light detection range	—	+20~-30dBm	—	—
Output light detection range	—	+20~-50dBm	—	+10~-40dBm
Optical power meter linearity	—	±0.05dB	—	±0.05dB
Attenuation response time	≤20ms	≤50ms	100ms/1dB	
Optical connectors	FC/UPC (FC/APC Customizable)			
Optical shutter	—	Option implementation	—	Option implementation
LOS hysteresis	—	Option implementation	—	
Button LCD	Support			
Power supply	AC100V ~ 240V,50HZ			
Size (L*W*H)	200×183×97mm	366×306×112mm	200×183×97mm	366×306×112mm