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TECHNOLOGY GROUP

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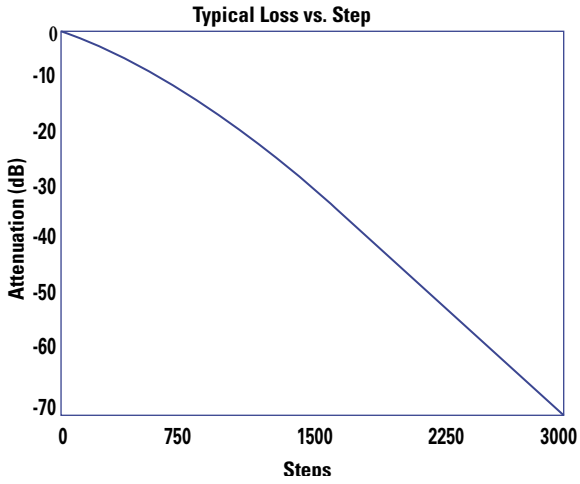


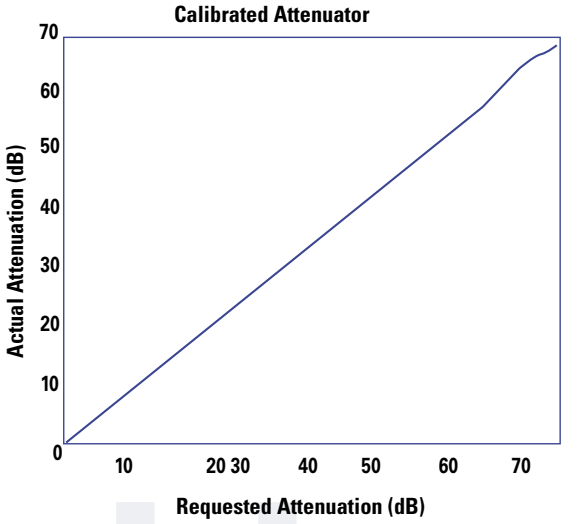
Optical Attenuators

Overview

The SM8101 and SM8102 are single-slot VXIbus modules. The SM8101 is a single-channel variable attenuator, whereas the SM8102 is a dual-channel variable attenuator. Both modules are used to automatically adjust optical power level in test systems with a range 0 dB to 60 dB, with better than 0.05 dB resolution. Applications include setting power levels to optimize receiver sensitivity in single wavelength systems, as well as active gain equalization in dense WDM systems. Factory test applications include bit error rate performance and dynamic range testing.

Optical Performance





Features

- Wide Attenuation Range (0 dB - 60 dB)
- Low Back Reflection (-50 dB max.)
- Precise Resolution (0.05 dB)
- Low Insertion Loss (0.6 dB typ)
- Up to 2 Optical Attenuators per Single VXIbus Slot

Optical Attenuators

Specifications[3]

Range:[1]	0 dB - 10 dB	11 dB- 30 dB	31 dB -60 dB
Resolution	0.10 dB	0.12 dB	0.15 dB
Repeatability:	±0.05 dB	±0.1 dB	±0.1 dB
PDL[2]	0.08 dB	0.1 dB	0.3 dB
Absolute	±0.1 dB	±0.2 dB	±0.25 dB

Insertion Loss: 0.6 dB typical, 1.5 dB max.

Back Reflection:[2] -50 dB max.

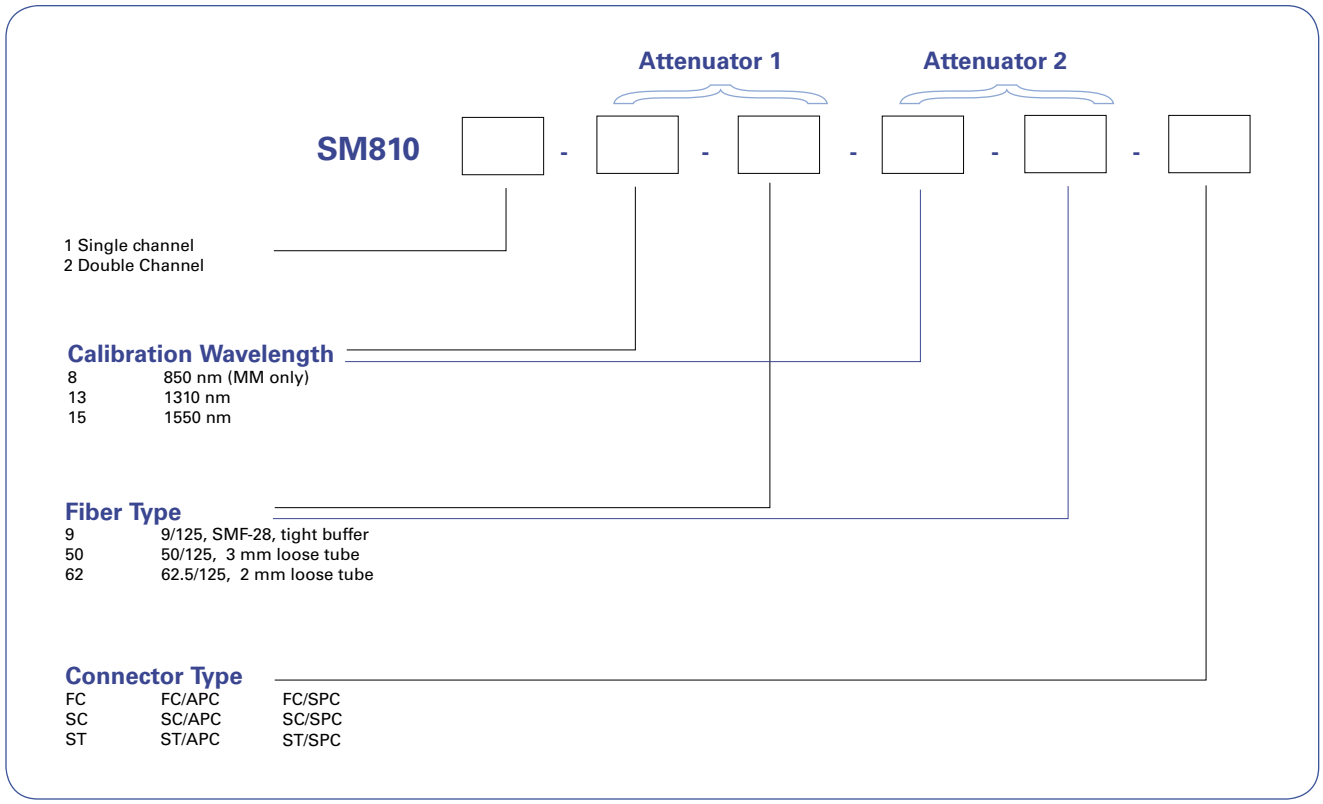
Tuning Speed: 50 msec/min. 1400 msec max.

Operating Temp: 0 ˚C to +50 ˚C

Storage Temp: -20 ˚C to +70 ˚C

Humidity: 40 ˚C/ 90% RH / 5 days

1. Maximum attenuation for multimode components is 30 dB.
2. Singlemode only measured at 1550 nm.
3. All specifications referenced without connectors.
4. Performance results vary depending on multimode launch condition.



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