Pulse Suppressor Box

Stand-Alone PSB

- Singlemode or multimode fiber types
- Three different fiber lengths
- Wide variety of connectors
- Rugged and compact case
- Metal lid support prevents lid from falling and damaging patchcords

An OTDR testing essential

Combined with EXFO OTDR equipment, the Pulse Suppressor Box (PSB) enables loss measurement on the first and last connections of the fiber under test.

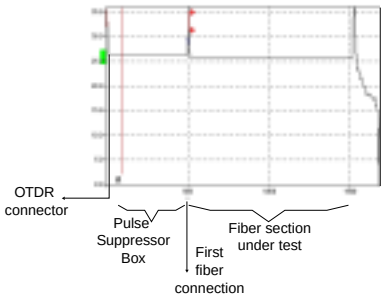
Choice of configurations

Typically, dead zones are about the same length as the optical pulse plus a few meters. So the Pulse Suppressor Box configuration should be longer than the pulse selected for the test session. The PSB is available in lengths of 300 m, 500 m and 1500 m, with a choice of singlemode or multimode fiber. EXFO also offers a wide range of connectors for quick connection to most OTDR and patch panel ports. The PSB is housed in a compact, field-proof case for maximum protection.

How it works

Often, the longest dead zone occurs at the first connection (the OTDR bulkhead connector). Because it is impossible to measure loss within a dead zone, loss due to splices and connectors close to the OTDR launch point cannot be determined under ordinary circumstances. However, you can work around this problem by connecting the Pulse Suppressor Box between the OTDR and the fiber under test. The length of fiber in the PSB distances the dead zone from the splices and connectors to be checked, and these crucial loss values can then be measured.

Loss from the last connector of the fiber under test can be measured in the same way, by placing the extra fiber length of the PSB after the connector. This extra fiber enables the OTDR to compare backscatter levels before and after the event to calculate the connector loss.



Fiber-optic test, measurement and monitoring instruments

Specifications

Description	Typical specifications For singlemode fiber only
Connector insertion loss (dB)	< 0.5 (maximum initial)
Connector reflectance (dB)	UPC: < –50 APC: < –60

Fiber type	Wavelength	Typical attenuation range
Multimode fiber 50/125 µm	850 nm	2.4 to 3.0 dB/km
	1300 nm	0.6 to 1.2 dB/km
Multimode fiber 62.5/125 µm	850 nm	3.0 to 3.2 dB/km
	1300 nm	0.7 to 0.9 dB/km
Singlemode fiber 9/125 µm	1310 nm	≤ 0.35 dB/km
	1550 nm	≤ 0.25 dB/km

General Specifications

Size (H x W x D)	20 cm x 15 cm x 10 cm	(8 in x 6 in x 4 in)
Weight	< 2.5 kg	(< 5.5 lb)
External patchcord length	2 x 3 m	(2 x 10 ft)

Pulse Suppressor Box Models and Configurations

Part number	Description
PSB-B-500-XX-YY	Pulse suppressor box, singlemode fiber 9/125, 500 m
PSB-B-1500-XX-YY	Pulse suppressor box, singlemode fiber 9/125, 1500 m
PSB-C-300-XX-YY	Pulse suppressor box, multimode fiber 50/125, 300 m
PSB-D-300-XX-YY	Pulse suppressor box, multimode fiber 62.5/125, 300 m

Ordering Information

PSB-X-XXXX-XX-XX

Fiber type
B = Singlemode fiber 9/125 µm
C = Multimode fiber 50/125 µm
D = Multimode fiber 62.5/125 µm

Fiber length
300 = 300 m (for fiber type C and D only)
500 = 500 m (for fiber type B only)
1500 = 1500 m (for fiber type B only)

First connector
Connector code[1]
Singlemode[2]
58 = FC/APC narrow key
88 = SC/APC
89 = FC/UPC
90 = ST/UPC
91 = SC/UPC
Multimode[3]
50 = FC/PC
54 = SC/PC
74 = ST/PC

Second connector
Connector code[1]
Singlemode[2]
58 = FC/APC narrow key
88 = SC/APC
89 = FC/UPC
90 = ST/UPC
91 = SC/UPC
Multimode[3]
50 = FC/PC
54 = SC/PC
74 = ST/PC

Notes

1. Patchcord extremities can have different connectors.
   Examples:
   PSB-B-1500-58-88
   PSB-B-500-88-88
   PSB-C-300-54-74
   PSB-D-300-74-74
2. **For singlemode models**, the following connectors are available at no extra cost.
3. **For multimode models**, the following connectors are available at no extra cost.

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