

# 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.

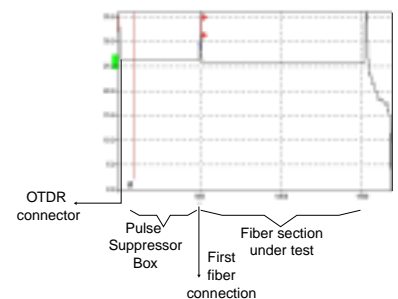
### Choice of configurations

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.



## 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<sup>1</sup>

#### Singlemode<sup>2</sup>

- 58 = FC/APC narrow key
- 88 = SC/APC
- 89 = FC/UPC
- 90 = ST/UPC
- 91 = SC/UPC

#### Multimode<sup>3</sup>

- 50 = FC/PC
- 54 = SC/PC
- 74 = ST/PC

### Second connector

#### Connector code<sup>1</sup>

#### Singlemode<sup>2</sup>

- 58 = FC/APC narrow key
- 88 = SC/APC
- 89 = FC/UPC
- 90 = ST/UPC
- 91 = SC/UPC

#### Multimode<sup>3</sup>

- 50 = FC/PC
- 54 = SC/PC
- 74 = ST/PC

## Notes

- 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

- For singlemode models, the following connectors are available at no extra cost.
- For multimode models, the following connectors are available at no extra cost.

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EXFO EUROPE	Le Dynasteur, 10/12 rue Andras Beck	92366 Meudon la Forêt Cedex FRANCE	Tel.: +33.1.40.83.85.85 . Fax: +33.1.40.83.04.42
EXFO ASIA-PACIFIC	151 Chin Swee Road, #03-29 Manhattan House	SINGAPORE 169876	Tel.: +65 333 8241 . Fax: +65 333 8242
TOLL-FREE (USA and Canada)	Tel.: 1 800 663-3936	<a href="http://www.exfo.com">www.exfo.com</a> • <a href="mailto:info@exfo.com">info@exfo.com</a>	

EXFO is certified ISO 9001 and attests to the quality of these products. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. EXFO has made every effort to ensure that the information contained in this specification sheet is accurate. However, we accept no responsibility for any errors or omissions, and we reserve the right to modify design, characteristics and products at any time without obligation. Units of measurement in this document conform to SI standards and practices. **Contact EXFO for prices and availability or to obtain the phone number of your local EXFO distributor.** For the most recent version of this spec sheet, please go to the EXFO Web site at <http://www.exfo.com/support/techdocs.asp> In case of discrepancy, the Web version takes precedence over any printed literature.

