

9700

PASSIVE DEPOLARIZER

M9700

R&D AND MANUFACTURING



- Two versions available: 980 nm \pm 20 nm and 1520 nm to 1620 nm
- Typical insertion loss of 5 dB at 980 nm
- Typical degree of polarization (DOP) for LEDs: 3 % over 0.1 nm bandwidth
- Typical DOP of 10 % with the EXFO 2600 series of Tunable Laser Sources

The M9700 can virtually depolarize any low- and medium-coherence sources such as high-power LEDs (SLDs), Fabry-Perot laser diodes, DFBs, as well as the EXFO IQ-2600 and FLS-2600 families of erbium-doped tunable laser sources.

Increase Measurement Reliability and Consistency

When testing amplifiers or when using a tunable laser source for characterizing WDM devices, the M9700 is an excellent alternative to polarization scrambling techniques to obtain better repeatability and consistency over several measurements.

Innovative Design

EXFO is introducing a novel technique to obtain passive depolarization through a design made of singlemode optical fibers. The M9700 typically reduces the degree of polarization (DOP) of EXFO's 2600 series of Tunable Laser Sources to 10 %.

The Passive Depolarizer, available as a stand-alone unit or as a one-slot module in the IQ-200 Optical Test System, is also part of the IQ-12003 Environmental Test System and optional in the IQ-12004B DWDM Passive Component Test System.

SPECIFICATIONS^{1, 2}

Models	M9706	M9734
Operating wavelength (nm)	980 ± 20	1520 to 1620
Fiber type	Flexcor 1060	SMF-28
Insertion loss (dB) ³	5	3
Degree of polarization (%)	5	10 to 15
PDL (dB)	0.2	0.1

ORDERING INFORMATION

M9706-XX**Connector code**

EA-EUI-28 = APC/DIN 47256
 EA-EUI-89 = APC/FC narrow key
 EA-EUI-91 = APC/SC
 EA-EUI-95 = APC/E-2000

Example: M9706-EA-EUI-89

M9734-XX**Connector code**

EA-EUI-28 = APC/DIN 47256
 EA-EUI-89 = APC/FC narrow key
 EA-EUI-91 = APC/SC
 EA-EUI-95 = APC/E-2000
 EI-EUI-28 = UPC/DIN 47256
 EI-EUI-76 = UPC/HMS-10/AG
 EI-EUI-89 = UPC/FC narrow key
 EI-EUI-90 = UPC/ST
 EI-EUI-91 = UPC/SC
 EI-EUI-95 = UPC/E-2000

Example: M9734-EI-EUI-89

Notes

- All specifications are typical values.
- M9706: tested with a LED at 980 nm, FWHM = 25 nm.
M9734: tested with IQ-2600 Tunable Laser Source at 1550 nm.
- Insertion loss per module, excluding connectors.



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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 website at <http://www.exfo.com/specs>. In case of discrepancy, the Web version takes precedence over any printed literature.