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VIAVI Solutions 5G

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FREECALL 1800 680 680

MAP Variable Backreflector

For stand-alone applications, the MAP Variable Backreflector may be used as a benchtop

Key Features

- **0.01 dB resolution**
- **Operation at 850/1310 or 1310/1550 nm**
- **SM or MM fiber**

Applications

- Transmitter/receiver development and testing
- Reflection testing for connectors
- Quality assurance acceptance testing
- Laser development and production

Safety Information

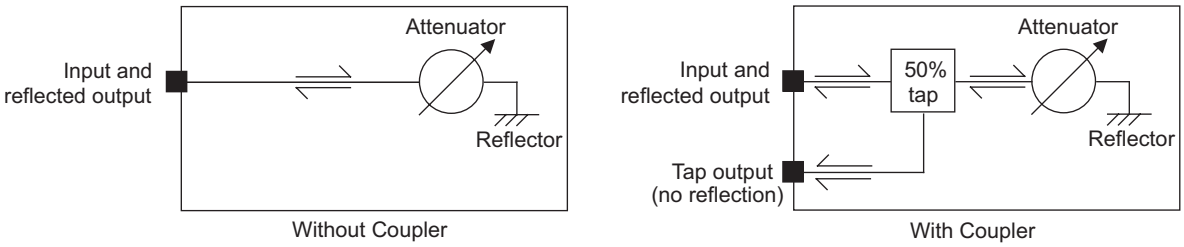
- This cassette, when installed in a MAP chassis, complies to CE requirements plus UL3101-1 and CAN/CSA-C22.2 No. 1010.1.

The Multiple Application Platform (MAP) Variable Backreflector Cassette provides precise levels of return loss (RL) to transmitters, which allows measurements of system sensitivity or system degradation as a function of backreflection.

When used with a transmitter/receiver pair and characterization equipment, the backreflector can be used to establish the magnitude of reflections that significantly degrade transmission system performance, and to characterize the problems they cause.

The backreflector uses JDSU's linear attenuator prism and high reflectivity mirror to precisely control the level of RL. The cassette is available in single-mode (SM) or multimode (MM) fibers and with an optional coupler for monitoring.

Figure 1: Optical Configurations for the Variable Backreflector Cassette



Specifications

Parameter	Single-mode fiber (SMF) without Coupler	Single-mode fiber (SMF) with 50/50 Coupler	Multimode fiber (MMF) without Coupler	Multimode fiber (MMF) with 50/50 Coupler
Wavelength range	1260 to 1650 nm	1260 to 1650 nm	750 to 1350 nm	750 to 1350 nm
Maximum backreflection level	> -5.0 dB	> -9.5 dB	> -5.0 dB	> -9.5 dB
Minimum backreflection level (APC/PC)	< -60 / < -45 dB	< -60 / < -45 dB	-30/< -30 dB	-30/< -30 dB
Insertion loss (IL)(IN to OUT) [1,2,3]	N/A	< 5.0 dB	N/A	< 6.0 dB
Relative backreflection setting accuracy [1,3,4]	± 0.2	± 0.2	± 0.4	± 0.4
Backreflection setting resolution	0.01	0.01	0.01	0.01
Fiber type	9/125 µm	9/125 µm	50/125 or 62.5/125 µm	50/125 or 62.5/125 µm
Polarization dependent loss (PDL)[1]	< 1.0 dB	< 1.0 dB	N/A	N/A
Maximum optical input power	200 mW			
Calibration period	2 years			
Warm-up time	30 minutes			
Operating temperature	0 to 50 °C			
Storage temperature	-30 to 60 °C			
Humidity	< 90 % at 23 °C, < 20 % at 50 °C (relative non-condensing)			
Dimensions (W x H x D)	Single width cassette (4.06 x 13.24 x 39.5 cm)			
Weight	1.1 kg (single) / 1.3 kg (dual)			

1. At 1310 ± 15 and 1550 ± 15 nm for SM units and at 850 ± 15 nm and 1310 ± 15 nm for MM units.
2. Including one mated pair of connectors.
3. At 23 ± 5 °C.
4. From maximum backreflection to - 40 dB for SM units and from maximum backreflection to -25 dB for MM units.

Ordering Information

Sample: MAPV+2B70100FA

MAPV+2B □□ □ □ **0** □□

Code	Fiber Type (µm)
19	50/125
29	62.5/125
70	9/125

Code	Cassette Type
1	Single
2	Dual

Code	Built-in Option
0	None
1	Coupler

Code	Port Type
0	Bulkheads

Code	Connector Type
FP	FC/PC
FA	FC/APC
SC	SC/PC
SU	SC/APC

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