



## *Enabling Australia's Field Technicians to build, troubleshoot and maintain better communications networks.*



This reference material is provided by TMG Test Equipment, VI.AVI's **only** Master Distributor for Contractors in Australia



**Industry Best Pricing**



**Finance Available**



**Short to Medium Project-Based Rental Solutions**



**Dedicated Technical & After-Sales Support**



**In-house Diagnostics, Repair & NATA Calibration Laboratory**



**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.

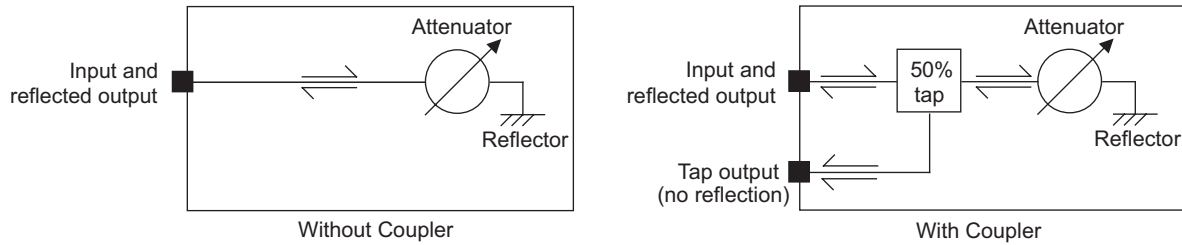
The Multiple Application Platform (MAP) Variable Backreflector Cassette provides precise levels of return loss (RL) to transmitters, which allows measurements of system sensitivity or system degradation as a function of backreflection.

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.

2

**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) <sup>1,2,3</sup>	N/A	< 5.0 dB	N/A	< 6.0 dB
Relative backreflection setting accuracy <sup>1,3,4</sup>	± 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) <sup>1</sup>	< 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**

Code	Fiber Type (µm)	Code	Cassette Type	Code	Built-in Option	Code	Port Type	Code	Connector Type
19	50/125	1	Single	0	None	0	Bulkheads	FP	FC/PC
29	62.5/125	2	Dual	1	Coupler			FA	FC/APC
70	9/125							SC	SC/PC
								SU	SC/APC

UL is a registered trademark of Underwriters Laboratories Inc.

All statements, technical information and recommendations related to the products herein are based upon information believed to be reliable or accurate. However, the accuracy or completeness thereof is not guaranteed, and no responsibility is assumed for any inaccuracies. The user assumes all risks and liability whatsoever in connection with the use of a product or its application. JDSU reserves the right to change at any time without notice the design, specifications, function, fit or form of its products described herein, including withdrawal at any time of a product offered for sale herein. JDSU makes no representations that the products herein are free from any intellectual property claims of others. Please contact JDSU for more information. JDSU and the JDSU logo are trademarks of JDS Uniphase Corporation. Other trademarks are the property of their respective holders. ©2006 JDS Uniphase Corporation. All rights reserved. 21042183 Rev.005 04/06 MAPVB.DS.TM.AE

**Test & Measurement Regional Sales**

<b>NORTH AMERICA</b> TEL: 1 866 228 3762 FAX: +1 301 353 9216	<b>LATIN AMERICA</b> TEL: +55 11 5503 3800 FAX: +55 11 5505 1598	<b>ASIA PACIFIC</b> TEL: +852 2892 0990 FAX: +852 2892 0770	<b>EMEA</b> TEL: +49 7121 86 2222 FAX: +49 7121 86 1222	<b>WEBSITE: <a href="http://www.jdsu.com">www.jdsu.com</a></b>
---	--	---	---	--