Backreflection Meters

BR5 Backreflection Meter



	Fornat Labels			1- MBR5 Backrefle		Test Profile			
	bel Header 1	W		1310, 1490, 1550,	11 w Insert	1		Add	
Label Header 2 Label Header 3		Channel Test Type		1		Remove			
				PWR	*				
L	bel Header 4		Detector	0	*				
	Slot	Wave	Detect	or Ch#	Test	Reading	Pause	Pause Message	Description
1	1- MBRS Backreflection Meter	1310	0	1	IL.	0			
2	1- MBR5 Backreflection Meter	1490	0	1	IL.	0.01	- 1		
3	1- MBR5 Backreflection Meter	1550	0	1	IL.	0.02			
4	1- MBRS Backreflection Meter	1625	0	1	IL.	0.03	- 1		
.5	1- MBR5 Backreflection Meter	1310	0	1	BR	-14.7			
6	1- MBRS Backreflection Meter	1490	0	1	BR	-14.7	- 6		
7	1- MBR5 Backreflection Meter	1550	0	1	BR	-14.8	E		
8	1- MBRS Backreflection Meter	1625	0	1	BR	-14.8			
9	1- MBR5 Backreflection Meter	1310	0	1	PWR	-7.81			
10	1- MBRS Backreflection Meter	1490	0	1	PWR	-6.57			
11	1- MBRS Backreflection Meter	1550	0	1	PWR	-5.72	- 1		
12	1- MBR5 Backreflection Meter	1625	0	1	PWR	-5.96			
*13							E		

GMS Software

PRODUCT DESCRIPTION

The BR5 Backreflection Meter is a user-friendly instrument developed with extremely stable optics for precise measurement of backreflection, insertion loss and power. The BR5 features up to four built-in laser sources at wavelengths of 850, 1310, 1490, 1550, 1625 or 1650 nm (depending on fiber type).

An intuitive display and keypad, with one-button access to BR and IL modes, simplifies the collection and management of measurement data. The meter may be controlled through remote interface (GPIB, RS232, or USB*) or locally via the user-friendly front panel keypad and display. It is available in single-mode and multimode, the BR5 is ideal for measurements of connectors, components, and systems.

The BR5 achieves ultra-stable backreflection measurements at very low values. Accuracy is typically ± 0.4 dB and measurement sensitivity is to -80 dB. Insertion loss relative accuracy is ± 0.05 dB. All our BR5 meters come standard with our GMS Software.

The multimode BR5 meets IEC-61280-4-1 Encircled Flux Standard.

*USB interface via-USB-DB9 adapter

KEY FEATURES

- Stable BR measurements at low values
- Up to 4 internal lasers
- BR range to -80 dB
- User Friendly

APPLICATIONS

- Component testing
 Connector and patchcord testing
- Incoming inspection
- QA testing

COMPLIANCE

- MM meets IEC 61280-4-1 Encircled Flux Standard
- UL/CSA 61010
- IEC 61010
- FCC Part 15 (Class A)
- EN 61326 (Class A)

IN THE BOX

- BR5 Meter
- AC power cord
- Calibration Certificate
- Calibrated Jumper
- Hybrid Test Jumper
- Detector Cap
- FC Detector Adapter
- MW3 Mandrel Wrap



HOW TO ORDER

Choose one characteristic from each column and assemble the part number.

CONTACT US

JGR Optics Inc.

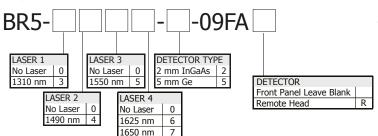
160 Michael Cowpland Dr. Ottawa, Ontario K2M 1P6 Canada

Tel: 613-599-1000 **Fax:** 613-599-1099 **Email:** info@jgroptics.com

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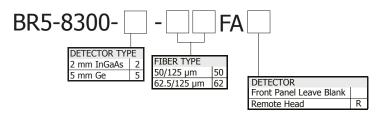
ORDERING SCHEME

Single-Mode Version



 Up to four lasers may be selected the single-mode version

Multimode Version



 The standard multimode version contains two lasers at 850 and 1310nm Other wavelengths are available upon request

ADDITIONAL ACCESSORIES See Page 32.





SPECIFICATIONS

OPTICAL / ELECTRICAL SPECIFICATIONS				
Parameter	Specification			
Parameter	Single-mode	Multimode		
Fiber Type (μm)	(9/125)	(50/125 or 62.5/125)		
Encircled Flux Standard	N/A	IEC-61280-4-1		
Operating Wavelengths (nm)	1310 / 1490 / 1550 / 1625 / 1650	850 / 1310		
Backreflection Range (dB)	0 to - 80	0 to - 60		
Backreflection Accuracy (dB) 1, 2	± 0.4			
Detector Type	2mm InGaAs / 5mm Ge			
Power Range (dBm)	0 to - 80 / 0 to - 60			
Absolute Power Accuracy (dB) ³	± 0.25			
Relative Power Accuracy (dB)	± 0.05 (< 5 dB loss)			
Relative Power Accuracy (ub)	± 0.15 (> 5 dB loss)			
Remote Interface	GPIB / RS232 / USB ⁴			
Input Voltage	100 - 240 V AC, 50 - 60 Hz			
Power Consumption (VA)	60 maximum			
Display	16 character LCD			

¹ Add 0.1 dB to the spec for every 1dB below -60dB (single-mode).

⁴ USB interface via-USB-DB9 adapter.

MECHANICAL / ENVIRONMENTAL SPECIFICATIONS				
Parameter	Specification			
Parameter	Single-mode	Multimode		
Unit Dimensions W x H x D (cm)	26 x 11 x 26			
Shipping Box Dimensions W x H x D (cm)	37 x 25 x 38			
Unit Weight (kg)	3			
Total Shipment Weight (kg)	4			
Operating Temperature (°C)	0 to 40			
Storage Temperature (°C)	- 40 to 70			
Humidity (Non-condensing) (°C)	Maximum 95% RH from 0 to 40			

 $^{^{2}}$ Add 0.1dB to the spec for every 1dB below -45dB (multimode).

³ Measured at -10 dBm.



VEV EE ATLIDEC

- Stable BR measurements at low values
- Up to 72 output channels
- IL and BR measurements
- Up to 4 internal lasers

APPLICATIONS

- Component testing
- · Ribbon fiber testing
- Simultaneous testing with multiple connector types
- · Incoming inspection
- QA testing

COMPLIANCE

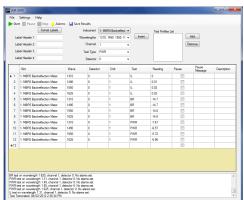
- MM meets IEC 61280-4-1 Encircled Flux Standard
- UL/CSA 61010
- IEC 61010
- IEC 60825-1 Class 1
- FCC Part 15 (Class A)
- EN 61326 (Class A)

IN THE BOX

- MBR5 Meter
- AC power cord
- Calibration Certificate
- Calibrated Jumper
- · Hybrid Test Jumper
- Detector Cap
- FC Detector Adapter
- MW3 Mandrel Wrap

MBR5 Multi-Output Backreflection Meter





GMS Software

PRODUCT DESCRIPTION

The MBR5 Multi-Output Backreflection Meter is an instrument developed with extremely stable optics for precise measurement of backreflection, insertion loss and power. Available with 4, 12, 24, 48 or 72 (MM) output channels, the MBR5 is a practical choice for both single fiber and ribbon fiber testing.

The MBR5 features up to four built-in laser sources at wavelengths of 850, 1310, 1490, 1550, 1625 and 1650 nm (depending on fiber type), and can be configured for single-mode or multimode measurement.

An intuitive display and keypad simplifies the collection and management of measurement data allowing quick access to the test results from various channels. The meter may be controlled through remote interface (GPIB, RS232, or USB*) or locally via the user-friendly front panel keypad and display.

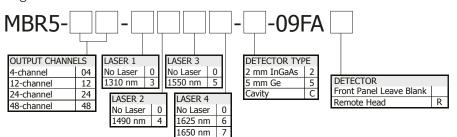
The MBR5 achieves ultra-stable backreflection measurements at very low values. Accuracy is typically ± 0.4 dB and measurement sensitivity is to -80 dB. Insertion loss relative accuracy is ± 0.05 dB. In addition, the cavity option is particularly useful for ribbon connectors with large fiber counts. The MBR5 and GMS Software can be used with the SX8 switch. All our MBR5 meters come standard with our GMS Software.

The multimode MBR5 meets IEC-61280-4-1 Encircled Flux Standard.



ORDERING SCHEME

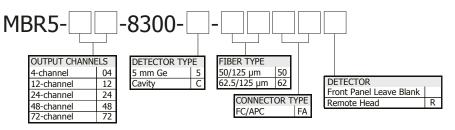
Single-Mode Version



• Up to four lasers may be selected for the single-mode version

Choose one characteristic from each column and assemble the part number.

Multimode Version



· The standard multimode version contains two lasers at 850 and 1310nm Other wavelengths are available upon request

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Backreflection Range (dB)	0 to - 80	0 to - 60		
Backreflection Accuracy (dB) 1, 2	± 0.4			
Detector Type	2 mm InGaAs / 5mm Ge / Cavity			
Power Range (dBm)	0 to - 80 / 0 to - 60 / 0 to -40			
Absolute Power Accuracy (dB) ³	± 0.25			
Polotino Pontos Acousos (dP)	± 0.05 (< 5 dB loss)			
Relative Power Accuracy (dB)	± 0.15 (> 5 dB loss)			
Remote Interface	GPIB / RS232 / USB ⁴			
Input Voltage	100 - 240 V AC, 50 - 60 Hz			
Power Consumption (VA)	80 maximum			
Display	4 lines, 16 character per line, LCD			

¹ Add 0.1 dB to the spec for every 1dB below -60dB (single-mode).

⁴ USB interface via-USB-DB9 adapter.

MECHANICAL / ENVIRONMENTAL SPECIFICATIONS				
Parameter	Specification			
Parameter	Single-mode	Multimode		
Unit Dimensions W x H x D (cm)	36 x 15 x 34			
Shipping Box Dimensions W x H x D (cm)	43 x 27 x 47			
Unit Weight (kg)	7			
Total Shipment Weight (kg)	8			
Operating Temperature (°C)	0 to 40			
Storage Temperature (°C)	- 40 to 70			
Humidity (Non-condensing) (°C)	Maximum 95% RH from 0 to 40			

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 $^{^{2}}$ Add 0.1dB to the spec for every 1dB below -45dB (multimode).

³ Measured at -10 dBm.