



MBR5 MULTI-OUTPUT BACKREFLECTION METER

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, or 48 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 and 1625 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 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 10 mm Ge detector option is particularly useful for ribbon connectors with large fiber counts.

SPECIFICATIONS

Parameter	Specification	
	Single-mode	Multimode
Fiber Type	(9/125 μm)	(50/125 or 62.5/125 μm)
Operating Wavelengths	1310, 1490, 1550, 1625, ± 10 nm	850, 1310, ± 20 nm
Backreflection Range	0 to - 80 dB	0 to - 60 dB
Backreflection Accuracy ¹	± 0.4 dB	
Detector Type	InGaAs: 2 mm (SM only) or Ge: 5 or 10 mm	
Power Range	0 to - 80 dBm (InGaAs) 0 to - 60 dBm (Ge)	
Absolute Power Accuracy ²	± 0.25 dB	
Relative Power Accuracy	± 0.05 dB (< 5 dB loss) ± 0.15 dB (> 5 dB loss)	± 0.15 dB
Remote Interface	RS232 and GPIB	
Input Voltage	100 - 240 V AC, 50 - 60 Hz	
Power Consumption	30 VA maximum	
Display	16 character LCD	

1. Add 0.1dB to the spec for every 1dB below -60dB.
2. Measured at - 10 dBm.

Mechanical/Environmental Specifications

Parameter	Specification
Dimensions (W x H x D)	36 x 15 x 31 cm
Weight	10 kg
Operating Temperature	0 to 40 °C
Storage Temperature	- 40 to 70 °C
Humidity	Maximum 95% RH from 0 to 40 °C

>>>MBR5 MULTI-OUTPUT BACKREFLECTION METER

ORDERING INFORMATION

Choose one characteristic from each column and assemble the part number. Up to four lasers may be selected for the single-mode version. The standard multimode version contains two lasers at 850 and 1310 nm. Other wavelengths are available upon request.
(sample: MBR5-12-3050-1-09FA)

Single-Mode Version

MBR5-------09FA

OUTPUT CHANNELS	
4-channel	04
12-channel	12
24-channel	24
48-channel	48

LASER 1	
No Laser	0
1310 nm	3

LASER 3	
No Laser	0
1550 nm	5

DETECTOR TYPE	
2 mm InGaAs	2
5 mm Ge	5
10 mm Ge	1

LASER 2	
No Laser	0
1490 nm	4

LASER 4	
No Laser	0
1625 nm	6

Multimode Version

MBR5---8300--FA

OUTPUT CHANNELS	
4-channel	04
12-channel	12
24-channel	24
48-channel	48

DETECTOR TYPE	
5 mm Ge	5
10 mm Ge	1

FIBER TYPE	
50/125 μ m	50
62.5/125 μ m	62

CONTACT US

JGR SERVICES INC.
Sales: 613-726-1110
Technical Support: 613-726-7774
Fax: 613-726-9444
Email: Info@JGRservices.com

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